2019-20 HESA Student Alternative post-collection outputs

HESES19 comparison technical document

Contents

Summary

1. This document describes the Higher Education Students Early Statistics survey 2019-20 (HESES19) comparison files supplied as part of the 2019-20 Higher Education Statistics Agency (HESA) Student Alternative post-collection outputs, and the algorithms used to generate the data needed to recreate HESES19 from 2019-20 HESA Student Alternative data. Throughout the document, fields taken or derived from the HESA Student Alternative record are shown in capitals.

2. The HESES19 comparison output should be used by staff responsible for individualised data returns at higher education providers. This document is intended to help them understand in detail how the data has been used to recreate HESES19 and highlight significant differences between the two.

3. The HESES19 comparison output comprises three files. These are:

   a. HESES19 comparison workbook 'HES19_XXXXXXXX.xlsx'. This is supplied for the reconciliation exercise.

   b. HESES19 comparison individualised file 'HES19_XXXXXXXX_IND.csv'. This is supplied for the reconciliation exercise and funding data summaries, and may also be useful in interpreting the use of 2019-20 HESA Student Alternative data in the calculation of student premium allocations.

   c. HESES19 comparison instance period file 'HES19_XXXXXXXX_INSTPER.csv'. This is supplied for the reconciliation exercise.

   Details of how to use individualised files are given on the Office for Students (OfS) website at www.officeforstudents.org.uk/data-and-analysis/supplying-data/working-with-individualised-files/.

4. These files can be accessed from the '2019-20 Post-collection outputs' area of the OfS portal. Details will be emailed to the named student data contacts at providers when outputs become available.

5. This document is aimed at readers with in-depth knowledge of the data. Readers are advised to refer to the Coding Manual for the 2019-20 HESA Student Alternative record (https://www.hesa.ac.uk/collection/c19054), 'Higher Education Students Early Statistics survey 2019-20 (HESES19)' (www.officeforstudents.org.uk/publications/heses19/) and the latest individualised files for the HESES18B comparison and the HESES17 population to hand when using this document.

Changes due to the coronavirus (COVID-19) pandemic

6. As stated in the exceptional guidance published by HESA in response to the pandemic (https://www.hesa.ac.uk/definitions/ap-student/c19054-student-alternative-record-exceptional-guidance), we have decided not to use the FUNDCOMP field from the 2019-20 HESA Student Alternative record, other than to identify records which are excluded from the HESES population (FUNDCOMP = 9). It was originally intended to use FUNDCOMP to assign years of

instance to Column 3 or Column 4 of Tables 1, 2 and 3 of the HESES19 recreation, with the value of a new HESCOMP field indicating the column to which each year of instance was assigned. As it is not possible to do this for the 2019-20 post-collection output, we have applied an alternative method of assigning years of instance to Columns 3 and 4 that does not use FUNDCOMP. This method creates the following fields: HESNCOMPLEVEL_Y, HESNCOMPRATE_Y, HESNCOMPLEVEL_Z, HESNCOMPRATE_Z, HESCOL3_PROFX, HESCOL3_Y, HESCOL3, HESCOL4_PROFX, HESCOL4_Y, HESCOL4, HESCOL4A. The algorithms for these fields are shown in the 'Recreating Columns 3 and 4' and 'Estimating FTE' sub-sections of the 'Description of derived fields' section of this document.

Recreating Columns 3 and 4 using HESES19 non-completion rates

7. For the HESES19 comparison, we are using non-completion rates calculated from HESES19 data to determine the likelihood that a student did not complete a particular year of instance. This likelihood is used to determine the proportion of the year of instance that is counted in Column 3, and the proportion that is counted in Column 4. These proportions are recorded in the HESCOL3 and HESCOL4 fields. For example, if the non-completion rate applicable to a particular year of instance is 15 per cent, then (HESCOL3 = 0.15) and (HESCOL4 = 0.85) for that year of instance.

8. Headcounts from Columns 1, 2 and 3 of Tables 1, 2 and 3 of HESES19 have been used to calculate non-completion rates at five different levels. These are used to calculate HESCOL3 and HESCOL4 for years of instance recorded in Tables 1, 2 and 3 but not in Tables 6a, 6b and 6c. Headcounts from Columns 1, 2 and 3 of Tables 6a, 6b and 6c were deducted from the headcounts from Tables 1, 2 and 3 before the rates were calculated, because non-completion rates for years of instance recorded in Tables 6a, 6b and 6c were calculated separately using a different method (see paragraph 10). At the lowest level, rates have been calculated for all combinations of the following parameters: provider; mode of study; level of study; residential and fundability status; price group; length of year of instance. At the highest level, rates have been calculated using the total headcounts from Columns 1, 2 and 3 of Tables 1, 2 and 3 of HESES19 (minus those also recorded in Tables 6a, 6b and 6c) for each provider. The combination of parameters used for each level are shown below:

   a. Level 1: (provider) x (mode of study) x (level of study) x (residential and fundability status) x (price group) x (length of year of instance).

   b. Level 2: (provider) x (mode of study) x (level of study) x (residential and fundability status) x (price group).

   c. Level 3: (provider) x (mode of study) x (level of study).

   d. Level 4: (provider) x (mode of study).

   e. Level 5: (provider).

9. As well as calculating the non-completion rate, the (Column 1 + Column 2) headcount has also been calculated for each combination at each level. These headcounts are used to determine the reliability of the calculated rate. A rate is deemed reliable if there are at least 10 years of instance in the group for which the rate was calculated, except at Level 5 where all rates are deemed reliable irrespective of the number of years of instance in the group.

10. Headcounts from Columns 1, 2 and 3 of Tables 6a, 6b and 6c of HESES19 have been used to calculate non-completion rates at five different levels. These are used to calculate HESCOL3 and HESCOL4 for years of instance recorded in Tables 6a, 6b and 6c. At the lowest level, rates have been calculated for all combinations of the following parameters: provider; mode of study; profession; residential and fundability status; level of study. At the highest level, rates have been calculated using the total headcounts from Columns 1, 2 and 3 of Tables 6a, 6b and 6c of HESES19 for each provider. The combination of parameters used for each level are shown below:

    a. Level 1: (provider) x (mode of study) x (profession) x (residential and fundability status) x (level of study).

    b. Level 2: (provider) x (mode of study) x (profession) x (residential and fundability status).

    c. Level 3: (provider) x (mode of study) x (profession).

    d. Level 4: (provider) x (mode of study).

    e. Level 5: (provider).

11. As well as calculating the non-completion rate, the (Column 1 + Column 2) headcount has also been calculated for each combination at each level. These headcounts are used to determine the reliability of the calculated rate. A rate is deemed reliable if there are at least 10 years of instance in the group for which the rate was calculated, except at Level 5 where all rates are deemed reliable irrespective of the number of years of instance in the group. Where there are no years of instance in the group at Level 5, the rate is set to zero.

12. In the first step of the process of finding a suitable non-completion rate for a year of instance, we look for the corresponding rate at Level 1, using the combination of parameters shown in either paragraph 8 or paragraph 10, depending on whether the year of instance is only recorded in Tables 1 to 3, or whether it is also recorded in Tables 6a to 6c. If a rate at this level is not found (i.e. the year of instance does not correspond with a year of instance recorded by the provider at this level in HESES19), or the corresponding rate is deemed unreliable because there are not enough years of instance in the group for which the rate was calculated, then we look for the corresponding rate at Level 2. If a rate at this level is not found, or the corresponding rate is deemed unreliable, then we look for the corresponding rate at Level 3. This process of moving to higher levels continues until a suitable rate is found. Note that if the level of study for a year of instance is not determined, then no rate will be found.

13. Because a year of instance can be in more than one price group or profession, and the non-completion rates at some levels are dependent on price group or profession, it may be necessary to apply more than one non-completion rate to a year of instance. For this reason, the process of finding a suitable non-completion rate is carried out for each price group or profession that has activity in it. It is therefore possible for the values of HESCOL3 and HESCOL4 for a particular year of instance in Table 1, 2 or 3 (but not in Tables 6a to 6c) to be calculated using five different non-completion rates if there is activity in each of the five price groups. Similarly, it is possible for the values in HESCOL3 and HESCOL4 for a year of instance in Table 6a, 6b or 6c to be calculated using two different non-completion rates if there is activity in two professions.

14. The contribution to the proportions recorded in HESCOL3 and HESCOL4 from each price group or profession is determined by the proportion of activity in each price group or profession. For example, if 60 per cent of the activity for a year of instance is in price group B and 40 per cent is in price group C1, and the non-completion rates are 15 per cent for the price group B activity and 20 per cent for the price group C1 activity, then the value of HESCOL3 would be calculated as follows: $(0.60 \times 0.15) + (0.40 \times 0.20) = 0.17$. Or if 50 per cent of the activity for a year of instance is in 'Nursing – adult' and 50 per cent is in 'Nursing – children', and the non-completion rates are 11 per cent for 'Nursing – adult' and 9 per cent for 'Nursing – children', then the value of HESCOL3 would be calculated as follows: $(0.50 \times 0.11) + (0.50 \times 0.09) = 0.10$.

Using HESCOL4 to estimate full-time equivalence (FTE)

15. By applying the method described above, every year of instance in the HESES19 population contributes to both Column 3 and Column 4 of Table 1, 2 or 3 of the HESES19 recreation. Consequently, every part-time year of instance also contributes to the FTE in Column 4a. For the 2018-19 post-collection output, FTEY_EXCLEST and FTEY_INCLEST (where Y is the price group) were calculated for each instance period by multiplying the value of HESESFTE_EXCLEST or HESESFTE_INCLEST for the instance period by the proportion of activity in each price group for the first ranked instance period. We cannot apply this method for the 2019-20 post-collection output, because without using FUNDCOMP it would not be possible to exclude the FTE we would calculate for instance periods of non-completed years of instance. Instead, we must exclude non-completed years of instance before we calculate the FTE in each price group. For this reason, the algorithms that calculate FTEY_EXCLEST and FTEY_INCLEST only use the proportion of a year of instance that is counted in Column 4. There is also a HESCOL4A field which records the sum of the FTE (FTEY_INCLEST) from all price groups for each instance period. This is necessary to rebuild Column 4a, because without using FUNDCOMP it is not possible to exclude FTE associated with non-completed years of instance when summing HESESFTE_INCLEST.

16. FTEA_EXCLEST, FTEB_EXCLEST, FTEC1_EXCLEST, FTEC2_EXCLEST and FTED_EXLCEST are calculated by multiplying HESESFTE_EXCLEST by the contribution of the activity in the price group for the first ranked instance period to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4_Y, where Y is the price group). FTEA_INCLEST, FTEB_INCLEST, FTEC1_INCLEST, FTEC2_INCLEST and FTED_INLCEST are calculated by multiplying HESESFTE_INCLEST by the contribution of the activity in the price group for the first ranked instance period to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4_Y, where Y is the price group).

17. HESCOL4A is calculated by multiplying HESESFTE_INCLEST by the contribution of the year of instance to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4), and then dividing by 100. Note that the contribution to Column 4 is derived from the first ranked instance period.

Changes from the HESES19 comparison data checking tool output

18. This section describes any changes to the output and algorithms since the equivalent was published for the data checking tool, available here: www.officeforstudents.org.uk/data-and-analysis/data-checking-tools/2019-20-hesa-student-alternative-data-checking-tool/ under

'Documentation'. Additions are shown as **bold and underlined**, and deletions are shown as ~~struck-through~~.

HESEXCL32_PX

19. This field has been added to exclude instance periods that started before 1 August 2019 and ended before the anniversary of the start date (COMDATE) of the instance. Such instance periods do not contribute to the estimated FTE for the 2019-20 year of instance and are therefore excluded from the HESES19 population.

Value	Description	Definition
1	**Started before 2019-20 academic year and ended before 2019-20 year of instance**	**HESSTARTCASE = 1 and HESENDCASE = 1, 2**
0	**Otherwise**	**Otherwise**

HESEXCL_PX

20. This field has been updated to account for the addition of the new HESEXCL32_PX field.

Value	Description	Definition
1	NVQ or QTS only or visiting student course aim associated with the instance period	HESEXCL1_PX = 1
2	No qualification aim associated with the instance period	HESEXCL2_PX = 1
4	Student taught mostly outside the UK for the instance period	HESEXCL4_PX = 1
8	Student who is dormant, on sabbatical or writing up for the instance period	HESEXCL8_PX = 1
16	Incoming exchange student for the instance period	HESEXCL16_PX = 1
32	**Started before 2019-20 academic year and ended before 2019-20 year of instance**	**HESEXCL32_PX = 1**
0	Otherwise	None of the above

HESTYPE

21. This field has been modified to use HESLEVEL instead of FUNDLEV.

Value	Description	Definition
HOMENF	Home and EU non-fundable	(FUNDCODE = 1 and **HESLEVEL = PGR** ~~FUNDLEV = 30, 31~~) or (FUNDCODE = 2, 5, 7 and HESEC = UK, OEU)
HOMEF	Home and EU fundable	FUNDCODE = 1 and not above
ISOV	Island and overseas	Otherwise

HESRESSTAT

22. This field has been modified to use HESEC instead of DOMICILE.

Value	Description	Definition
HOMEF_UK	Fundable, UK-domiciled	HESTYPE = HOMEF and **HESEC = UK** ~~DOMICILE = XF, XG, XH, XI, XK~~
HOMEF_OTH	Fundable, other Home and EU	HESTYPE = HOMEF and not above
HOMENF_UK	Non-fundable, UK-domiciled	HESTYPE = HOMENF and **HESEC = UK** ~~DOMICILE = XF, XG, XH, XI, XK~~
HOMENF_OTH	Non-fundable, other Home and EU	HESTYPE = HOMENF and not above
ISOV	Island and overseas	HESTYPE = ISOV

HESMDV

23. This field has been updated so that it now specifies which HECoS codes we have used to identify undergraduate veterinary science courses (UVET).

Value	Description	Definition
UMED	Undergraduate pre-clinical or clinical medicine student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 01
UDEN	Undergraduate pre-clinical or clinical dentistry student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 30
UVET	Undergraduate pre-clinical or clinical veterinary science student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 14 and **(HESSBJCA1_P1 = 100531, 101347, 101384 or HESSBJCA2_P1 = 100531, 101347, 101384 or HESSBJCA3_P1 = 100531, 101347, 101384 or HESSBJCA4_P1 = 100531, 101347, 101384 or HESSBJCA5_P1 = 100531, 101347, 101384)**
OTH	Otherwise	Otherwise

HESEXCL128

24. This field has been updated to account for the addition of the new HESEXCL32_PX field.

Value	Description	Definition
1	Student with a total STULOAD of less than 3	HESSTULOAD < 3 **or HESEXCL32_P1 = 1**
0	Otherwise	Otherwise

Requesting overrides

25. Occasionally primary derived field(s) need to be overridden for some records. This occurs in circumstances where we cannot correctly categorise those records using an algorithm. Providers should email HESASAR@officeforstudents.org.uk where they believe an override may need to be created. Two examples of where we believe some providers may need to request an override are given below.

Overriding HESLEVEL for some students studying architecture

26. For students who are on Part 2 of the qualification leading towards registration with the Architects Registration Board, typically some should be classed as Postgraduate taught (undergraduate fee) (i.e. HESLEVEL = PGT_UGF), and some should be classed as Postgraduate taught (masters' loan) (i.e. HESLEVEL = PGT_ML).

27. However, the HESLEVEL algorithm may place all records into the PGT_ML category. If some of the records at your provider should instead be placed into the PGT_UGF category, and it has a material impact on funding, an override will need to be requested.

Overriding HESLEVEL for some students studying post-registration health and social care qualifications at level M

28. Only certain values of HESCOURSEAIM_P1 (M00, M01, M10, M11, M16, M88) are included in the classification of records as Postgraduate taught (masters' loan) (i.e. HESLEVEL = PGT_ML). However, some post-registration health and social care courses at level M (HESCOURSEAIM_P1 = M76) may be classed as Postgraduate taught (masters' loan), and the HESLEVEL algorithm will not be classing these courses as such. If these courses at your provider should be placed into the PGT_ML category, an override will need to be requested.

HESES19 comparison workbook

29. The HESES19 comparison workbook 'HES19_XXXXXXXX.xlsx' (where XXXXXXXX denotes the UK Provider Reference Number, UKPRN) contains the worksheets shown in Table 1. Note that it is not possible to recreate Table 4 using 2019-20 HESA Student Alternative data. Consequently, no data relating to this table is shown in the HESES19 comparison workbook, and all figures calculated from 2019-20 HESA Student Alternative data in Table D are shown as zero.

Table 1: Worksheets in the HESES19 comparison workbook

Workbook tab*	Title
Information	Workbook information
Key differences	Key differences between HESES19 and HESES19 recreated using 2019-20 HESA Student Alternative data
Rebuild information	Comparison of HESES19 and HESES19 recreated using 2019-20 HESA Student Alternative data, with rebuild instructions
1 Full-time	HESES19 recreation Table 1: Full-time counts of years of instance

Workbook tab*	Title
2 Sandwich	HESES19 recreation Table 2: Sandwich year out counts of years of instance
3 Part-time	HESES19 recreation Table 3: Part-time counts of years of instance and full-time equivalent (FTE)
5 Planning	HESES19 recreation Table 5: Further student breakdowns for planning purposes
6a Health full-time	HESES19 recreation Table 6a: Full-time counts of years of instance on pre-registration health courses
6b Health sandwich	HESES19 recreation Table 6b: Sandwich year out counts of years of instance on pre-registration health courses
6c Health part-time	HESES19 recreation Table 6c: Part-time counts of years of instance and FTE on pre-registration health courses
h1 Full-time	HESES19 Table 1: Full-time counts of years of instance
h2 Sandwich	HESES19 Table 2: Sandwich year out counts of years of instance
h3 Part-time	HESES19 Table 3: Part-time counts of years of instance and FTE
h5 Planning	HESES19 Table 5: Further student breakdowns for planning purposes
h6a Health full-time	HESES19 Table 6a: Full-time counts of years of instance on pre-registration health courses
h6b Health sandwich	HESES19 Table 6b: Sandwich year out counts of years of instance on pre-registration health courses
h6c Health part-time	HESES19 Table 6c: Part-time counts of years of instance and FTE on pre-registration health courses
1 Full-time diff	Difference between HESES19 and HESES19 recreation Table 1: Full-time counts of years of instance
2 Sandwich diff	Difference between HESES19 and HESES19 recreation Table 2: Sandwich year out counts of years of instance
3 Part-time diff	Difference between HESES19 and HESES19 recreation Table 3: Part-time counts of years of instance and FTE
5 Planning diff	Difference between HESES19 and HESES19 recreation Table 5: Further student breakdowns for planning purposes
6a Health full-time diff	Difference between HESES19 and HESES19 recreation Table 6a: Full-time counts of years of instance on pre-registration health courses

Workbook tab*	Title
6b Health sandwich diff	Difference between HESES19 and HESES19 recreation Table 6b: Sandwich year out counts of years of instance on pre-registration health courses
6c Health part-time diff	Difference between HESES19 and HESES19 recreation Table 6c: Part-time counts of years of instance and FTE on pre-registration health courses
A Summary	2020-21 Grant tables Table A: 2020-21 Summary of allocations
B High-cost	2020-21 Grant tables Table B: 2020-21 High-cost subject funding
C NMAH supplement	2020-21 Grant tables Table C: 2020-21 Nursing, midwifery and allied health supplement
D Erasmus+	2020-21 Grant tables Table D: 2020-21 Erasmus+ and overseas study programmes
E Other high-cost TAs	2020-21 Grant tables Table E: 2020-21 Other high-cost targeted allocations
F Student access and success	2020-21 Grant tables Table F: 2020-21 Student access and success
G Parameters	2020-21 Grant tables Table G: 2020-21 Parameters in the funding models

* Shading corresponds to the colour of the workbook tab.

30. The difference sheets (see worksheets ending in 'diff' in Table 1) will indicate where differences between the HESES19 recreation tables and the HESES19 tables exceed a given threshold. The size of this threshold can be altered by entering the required value where indicated on the worksheets. These sheets are to assist providers in reconciling differences between HESES19 data and HESES19 recreation data.

31. Providers are strongly encouraged to use the 'Rebuild information' worksheet in the 'HES19_XXXXXXXX.xlsx' workbook, which may highlight data quality issues relating to the HESA Student Alternative fields used in the HESES19 recreation algorithms.

32. Tables A (Estimated FTE for part-time OfS-fundable years of instance) and B (Estimate of load for part-time OfS-fundable years of instance) in the 2018-19 post-collection output are no longer included in the workbook. These tables were used to assess the feasibility of using FTE estimated from instance period HESSTULOAD_PX values to verify part-time OfS-fundable FTE submitted in HESES workbooks. The method of estimating FTE that was used to populate these tables, which included an estimation of the contribution from instance periods starting after the end of the reporting period, is now used to recreate Column 4a in Tables 3 and 6c.

33. The full-time equivalent (FTE) of a part-time year of instance is estimated from the HESSTULOAD_PX values of all instance periods of the instance in the 2019-20 academic year that are not excluded by an instance period exclusion field. The HESPERIODSTART_PX and HESPERIODEND_PX dates of each instance period are categorised, and the categories are

used to calculate the proportion of HESSTULOAD_PX that can be attributed to the 2019-20 year of instance.

HESES19 comparison individualised and instance period files

34. You should use the individualised file 'HES19_XXXXXXXX_IND.csv' and instance period file 'HES19_XXXXXXXX_INSTPER.csv' when working through this document. This shows the assignment of records to categories by our algorithms and, where applicable, provides the data that has been used to determine their exclusion from the relevant population.

35. The HESES19 comparison rebuild document provides instructions for rebuilding key figures in the workbook from the individualised file and the instance period file.

36. HESA Student Alternative fields used to generate the data in the output are listed in Table 2.

Table 2: HESA Student Alternative fields used in the HESES19 comparison output

Entity	Field	Description	Column in individualised file	Column in instance period file
Provider	UKPRN	UK Provider Reference Number	A	A
Course	COURSEAIM	General qualification aim of course	N/A	N/A
Course	REGBODY	Regulatory body	N/A	N/A
Course	TTCID	Teacher training course	N/A	N/A
Course subject	SBJCA	Subject of course	N/A	N/A
Course subject	SBJPCNT	Subject percentage	N/A	N/A
Student	HUSID	HESA unique student identifier	B	B
Student	OWNSTU	Provider's own identifier for student	D	D
Entry profile	DOMICILE	Domicile	AR	N/A
Instance	COMDATE	Start date of instance	AQ	F
Instance	ENDDATE	End date of instance	AS	G
Instance	FUNDCODE	Fundability code	AY	N/A
Instance	FUNDCOMP	Completion of year of instance	AZ	N/A
Instance	FUNDLEV	Level applicable to OfS HESES	BA	N/A
Instance	NUMHUS	Student instance identifier	C	C
Instance	OWNINST	Provider's own instance identifier	E	E
Instance	RSNEND	Reason for ending instance	CB	N/A
Instance	SPLENGTH	Expected length of study	CC	N/A
Instance	UNITLGTH	Units of length	CD	N/A

Entity	Field	Description	Column in individualised file	Column in instance period file
Instance period	COURSEID	Course identifier	N/A	N/A
Instance period	DISALL	Disabled student allowance	N/A	N/A
Instance period	EXCHIND	Exchange programmes	N/A	N/A
Instance period	INITIATIVES	Initiatives	N/A	N/A
Instance period	LOCSDY	Location of study	N/A	N/A
Instance period	MODE	Mode of study	N/A	N/A
Instance period	MSTUFEE	Major source of tuition fees	N/A	N/A
Instance period	PERIODEND	Instance period end date	N/A	N/A
Instance period	PERIODSTART	Instance period start date	N/A	N/A
Instance period	STULOAD	Student instance FTE	N/A	N/A
Instance period	YEARPRG	Year of course	N/A	N/A

Instance period ranking

37. The number of instance periods that can be returned for a given instance is unbounded; however, due to file size considerations we restrict the number of separate instance periods displayed in the individualised file to three. In the unusual case where an instance has more than three instance periods, all will be considered in our algorithms, although only three will be displayed in the individualised file.

38. The instance period derived field HESEXCL_PX (where X is the ranking of the instance period) determines whether or not an instance period is included in the HESES19 population. Instance periods are ranked by whether or not they are in the HESES19 population, then by descending HESPERIODSTART_PX date. Thus, an instance period which is included in the population is always ranked higher than an excluded instance period, even if the excluded instance period has a later HESPERIODSTART_PX date.

39. The data associated with the first ranked instance period is used to define the instance in the HESES19 population. Data for all instance periods is shown in the instance period file, but only data for the top three ranked instance periods is shown in the individualised file.

Description of derived fields

40. Fields derived from HESA Student Alternative data are listed in Table 3.

Table 3: HESES19 comparison derived fields

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
FTEA_EXCLEST, FTEB_EXCLEST, FTEC1_EXCLEST, FTEC2_EXCLEST, FTED_EXCLEST	Estimated FTE of the activity assigned to each price group, calculated using HESESFTE_EXCLEST	147	N/A	BL, BN, BP, BR, BT
FTEA_INCLEST, FTEB_INCLEST, FTEC1_INCLEST, FTEC2_INCLEST, FTED_INCLEST	Estimated FTE of the activity assigned to each price group, calculated using HESESFTE_INCLEST	148	AT-AX	BM, BO, BQ, BS, BU
HESANNIV	Anniversary of start date in current academic year	89	BB	H
HESANNIV20	Anniversary of start date in following academic year	90	BC	I
HESBROADLEVEL	Broad level of study	103	BD	N/A
HESCLIN	Price group A clinical medical, dental and veterinary science students	101	BE	N/A
HESCOL3	Contribution of year of instance to Column 3 of Tables 1-3	124	F	N/A
HESCOL3_PROFX	Contribution of activity in health profession to Column 3 of Tables 1-3 and Tables 6a-6c	122	L, M	N/A
HESCOL3_Y	Contribution of activity in price group to Column 3 of Tables 1-3	123	G, H, I, J, K	N/A
HESCOL4	Contribution of year of instance to Column 4 of Tables 1-3	127	N	J

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESCOL4_PROFX	Contribution of activity in health profession to Column 4 of Tables 1-3 and Tables 6a-6c	125	T, U	P, Q
HESCOL4_Y	Contribution of activity in price group to Column 4 of Tables 1-3	126	O, P, Q, R, S	K, L, M, N, O
HESCOL4A	Estimated contribution to FTE for year of instance	149	V	BV
HESCOURSEAIM_PX	General qualification aim of course	42	CE, DM, EU	AI
HESCOURSEID_PX	Course identifier	43	CF, DN, EV	AJ
HESCRSELGTH	Expected length of the course in years	99	BF	N/A
HESDISALL	Disabled Students' Allowances	116	BG	N/A
HESDISALL_PX	Disabled Students' Allowances	44	CG, DO, EW	N/A
HESEC	Indicates whether student has a UK, other Home and EU, or other domicile	95	BH	N/A
HESENDCASE	Instance period end date category	70	N/A	BA
HESENDDATE_AC19	2019-20 academic year end date	73	N/A	BD
HESENDDATE_IN18	2018-19 year of instance end date	71	N/A	BB
HESENDDATE_IN19	2019-20 year of instance end date	75	N/A	BF
HESESFTE_1	Estimated FTE in 2019-20 academic year for 2019-20 year of instance	76	N/A	BG
HESESFTE_2	Estimated FTE in 2020-21 academic year for 2019-20 year of instance	77	N/A	BH

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESESFTE_3_IN18	Estimated FTE in 2019-20 academic year for 2018-19 year of instance from instance period starting on or after 1 August 2019	78	N/A	BI
HESESFTE_EXCLEST	Estimated FTE for 2019-20 year of instance, excluding any estimate for instance period starting on or after 1 August 2020	143	N/A	BJ
HESESFTE_INCLEST	Estimated FTE for 2019-20 year of instance, including any estimate for instance period starting on or after 1 August 2020	144	W	BK
HESEXCHIND_PX	Exchange programmes	45	CH, DP, EX	AK
HESEXCL	Reason(s) for exclusion from the HESES population	139	X	R
HESEXCL_PX	Reason(s) for exclusion of instance period	86	CI, DQ, EY	AL
HESEXCL1-512	HESES population exclusions	129 - 138	BI-BR	N/A
HESEXCL1-32_PX	Instance period exclusions	80 - 84	CJ-CO, DR-DW, EZ-FE	AM-AR
HESHEALTHPOP	Identifies whether student is included in health population	115	Y	S
HESHEALTHPROF1-2	Identifies which nursing, midwifery or allied health professions the student is recorded against	93	Z-AA	T-U
HESHEALTHPROP1-2	Proportion of student's activity allocated to each health profession	112 - 113	AB-AC	V-W

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESHEALTHYEAR	Indicates whether student started course in 2016-17, 2017-18, 2018-19, 2019-20 or another academic year	114	AD	X
HESINITIATIVES1-3_PX	Initiatives	46 - 48	CP-CR, DX-DZ, FF-FH	N/A
HESLENGTH	Long or standard length year of instance	98	AE	Y
HESLEVEL	Level of study	94	AF	Z
HESLOCSDY_PX	Location of study	49	CS, EA, FI	AS
HESMDV	Undergraduate clinical and pre-clinical medical, dental and veterinary science students	100	BS	N/A
HESMODE	Mode of study	92	AG	AA
HESMODE_PX	Mode of study	50	CT, EB, FJ	AT
HESMSTUFEE_PX	Major source of tuition fees	51	CU, EC, FK	AU
HESNCOMPLEVEL_Y	Level at which HESNCOMPRATE_Y is calculated for year of instance	118	GC, GE, GG, GI, GK	N/A
HESNCOMPLEVEL_Z	Level at which HESNCOMPRATE_Z is calculated for year of instance	120	GM, GO, GQ, GS, GU, GW, GY, HA, HC, HE, HG, HI, HK, HM, HO, HQ, HS, HU	N/A
HESNCOMPRATE_Y	Estimate of likelihood that activity in price group was not completed	119	GD, GF, GH, GJ, GL	N/A
HESNCOMPRATE_Z	Estimate of likelihood that activity in health profession was not completed	121	GN, GP, GR, GT, GV, GX, GZ, HB, HD, HF, HH, HJ, HL, HN, HP, HR, HT, HV	N/A

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESNEWENTRANT	Identifies whether student is a new entrant	110	AH	N/A
HESOVER	Primary derived field(s) being overridden	141	BT	N/A
HESPERIODEND_PX	Instance period end date	53	CW, EE, FM	AV
HESPERIODNUM	Ranking of instance period	41	N/A	AW
HESPERIODSTART_PX	Instance period start date	52	CV, ED, FL	AV
HESPGR17	Number of PGR years of instance in 2017-18	108	BU	N/A
HESPGR18	Number of PGR years of instance in 2018-19	109	BV	N/A
HESPGT17	Number of PGT years of instance in 2017-18	106	BW	N/A
HESPGT18	Number of PGT years of instance in 2018-19	107	BX	N/A
HESPRGA, HESPRGB, HESPRGC1, HESPRGC2, HESPRGD	Proportion of countable year in each price group	102	AI-AM	AB-AF
HESREG	HESES Column 1 or 2 indicator	91	AN	AG
HESREGBODY1-2_PX	Regulatory body for health and social care students	54 - 55	CX-CY, EF-EG, FN-FO	N/A
HESRESSTAT	Fundability and residential status	97	AO	N/A
HESSBJCA1-5_PX	Subject of course	56 - 60	CZ-DD, EH-EL, FP-FT	N/A
HESSBJPCNT1-5_PX	Proportion of time allocated for each subject	61 - 65	DE-DI, EM-EQ, FU-FY	N/A
HESSTARTCASE	Instance period start date category	69	N/A	AZ
HESSTARTDATE_AC19	2019-20 academic year start date	72	N/A	BC
HESSTARTDATE_IN19	2019-20 year of instance start date	74	N/A	BE

Derived field name	Description	Para.	Column in individualised file	Column in instance period file
HESSTULOAD	Sum of FTE across all instance periods	117	BY	N/A
HESSTULOAD_PX	Student instance FTE	66	DJ, ER, FZ	AY
HESTTCID_PX	Teacher training course	67	DK, ES, GA	N/A
HESTYPE	Fundability status	96	AP	AH
HESUG17	Number of UG years of instance in 2017-18	104	BZ	N/A
HESUG18	Number of UG years of instance in 2018-19	105	CA	N/A
HESYEARPRG_PX	Year of course	68	DL, ET, GB	N/A

Instance period derived fields

HESPERIODNUM

41. The value of HESPERIODNUM indicates the ranking of the instance period, with the first ranked instance period having a value of 1. The data associated with the first ranked instance period is used to define the instance in the HESES19 population. This field is only shown in the instance period file.

HESCOURSEAIM_PX

42. This field contains COURSEAIM for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESCOURSEID_PX

43. This field contains COURSEID for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESDISALL_PX

44. This field contains DISALL for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESEXCHIND_PX

45. This field contains EXCHIND for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESINITIATIVES1_PX

46. This field contains INITIATIVES1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESINITIATIVES2_PX

47. This field contains INITIATIVES2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESINITIATIVES3_PX

48. This field contains INITIATIVES3 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESLOCSDY_PX

49. This field contains LOCSDY for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESMODE_PX

50. This field contains MODE for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESMSTUFEE_PX

51. This field contains MSTUFEE for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESPERIODSTART_PX

52. This field contains PERIODSTART for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESPERIODEND_PX

53. This field contains PERIODEND for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESREGBODY1_PX

54. This field contains REGBODY1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESREGBODY2_PX

55. This field contains REGBODY2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJCA1_PX

56. This field contains SBJCA1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJCA2_PX

57. This field contains SBJCA2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJCA3_PX

58. This field contains SBJCA3 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJCA4_PX

59. This field contains SBJCA4 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJCA5_PX

60. This field contains SBJCA5 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJPCNT1_PX

61. This field contains SBJPCNT1 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJPCNT2_PX

62. This field contains SBJPCNT2 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJPCNT3_PX

63. This field contains SBJPCNT3 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJPCNT4_PX

64. This field contains SBJPCNT4 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSBJPCNT5_PX

65. This field contains SBJPCNT5 for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSTULOAD_PX

66. This field contains STULOAD for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

HESTTCID_PX

67. This field contains TTCID for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESYEARPRG_PX

68. This field contains YEARPRG for the associated instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods. This field is not shown in the instance period file.

HESSTARTCASE

69. This field categorises the instance period's start date (HESPERIODSTART_PX) in relation to the 2019-20 academic year and the anniversary of the start date of the instance (COMDATE). If an instance period started up to 14 days before the anniversary of the start date of the instance, it is treated as if it started in the 2019-20 year of instance, provided that it did not end before the anniversary of the start date of the instance. This field is only shown in the instance period file.

Value	Description	Definition
1	Instance period started before 1 August 2019	HESPERIODSTART_PX < 1 August 2019
2	Instance period started on or after 1 August 2019, and before anniversary of start date (COMDATE)	(HESPERIODSTART_PX < HESANNIV – 14 or HESPERIODEND_PX < HESANNIV) and not above
3	Instance period started on or after anniversary of start date (COMDATE)	HESPERIODSTART_PX ≥ HESANNIV – 14 and not above

HESENDCASE

70. This field categorises the instance period's end date (HESPERIODEND_PX) in relation to the 2019-20 academic year and the anniversary of the start date of the instance (COMDATE). If an instance period ended up to 14 days after the anniversary, in the 2019-20 academic year, of

the start date of the instance, it is treated as if it ended in the 2018-19 year of instance, provided that it did not start after the anniversary of the start date of the instance. If an instance period ended up to 14 days after the anniversary, in the 2020-21 academic year, of the start date of the instance, it is treated as if it ended in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
1	Instance period ended before 1 August 2019	HESPERIODEND_PX < 1 August 2019
2	Instance period ended on or after 1 August 2019, and before anniversary of start date (COMDATE)	HESPERIODEND_PX < HESANNIV + 15 and HESPERIODSTART_PX < HESANNIV and not above
3	Instance period ended on or after anniversary of start date (COMDATE), and before 1 August 2020	HESPERIODEND_PX < 1 August 2020 and not above
4	Instance period ends on or after 1 August 2020, and before anniversary of start date (COMDATE) in following academic year	HESPERIODEND_PX < HESANNIV20 + 15 and not above
5	Instance period ends on or after anniversary of start date (COMDATE) in following academic year	HESPERIODEND_PX ≥ HESANNIV20 + 15

HESENDDATE_IN18

71. This field is the end date of the part of the instance period that occurred in the 2019-20 academic year for the year of instance that started in the 2018-19 academic year. This field is only shown in the instance period file.

Value	Description	Definition
HESPERIODEND_PX	Instance period ended on or after 1 August 2019, and before anniversary of start date (COMDATE)	HESENDCASE = 2
HESANNIV – 1	Instance period started before anniversary of start date (COMDATE), and ended on or after anniversary of start date	HESSTARTCASE = 1, 2 and HESENDCASE = 3, 4, 5
BLANK	Instance period started on or after anniversary of start date (COMDATE), or ended before 1 August 2019	Otherwise

HESSTARTDATE_AC19

72. This field is the start date of the part of the instance period that occurred in the 2019-20 academic year. This field is only shown in the instance period file.

Value	Description	Definition
01/08/2019	Instance period started before 1 August 2019, and ended on or after 1 August 2019	HESSTARTCASE = 1 and HESENDCASE = 2, 3, 4, 5
HESPERIODSTART_PX	Instance period started on or after 1 August 2019	HESSTARTCASE = 2, 3
BLANK	Instance period ended before 1 August 2019	Otherwise

HESENDDATE_AC19

73. This field is the end date of the part of the instance period that occurred in the 2019-20 academic year and in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
HESPERIODEND_PX	Instance period ended on or after anniversary of start date (COMDATE), and before 1 August 2020	HESENDCASE = 3
31/07/2020	Instance period ends on or after 1 August 2020	HESENDCASE = 4, 5
BLANK	Instance period ended before anniversary of start date (COMDATE)	Otherwise

HESSTARTDATE_IN19

74. This field is the start date of the part of the instance period that occurred in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
HESANNIV	Instance period started before anniversary of start date (COMDATE), and ends on or after anniversary of start date	HESSTARTCASE = 1, 2 and HESENDCASE = 3, 4, 5
HESPERIODSTART_PX	Instance period started on or after anniversary of start date (COMDATE)	HESSTARTCASE = 3
BLANK	Instance period ended before anniversary of start date (COMDATE)	Otherwise

HESENDDATE_IN19

75. This field is the end date of the part of the instance period that occurs in the 2020-21 academic year, but in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
HESPERIODEND_PX	Instance period ends on or after 1 August 2020, and before anniversary of start date (COMDATE) in following academic year	HESENDCASE = 4
HESANNIV20 – 1	Instance period ends on or after anniversary of start date (COMDATE) in following academic year	HESENDCASE = 5
BLANK	Instance period ended before 1 August 2020	Otherwise

HESESFTE_1

76. This field contains the estimated FTE for the part of the instance period that occurred in the 2019-20 academic year and the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
(((HESENDDATE_AC19 – HESSTARTDATE_IN19) + 1) / ((HESENDDATE_AC19 – HESSTARTDATE_AC19) + 1)) x HESSTULOAD_PX	Estimated FTE for 2019-20 year of instance between anniversary of start date (COMDATE) and 31 July 2020, inclusive	HESENDCASE = 3, 4, 5
0	No FTE because instance period ended before anniversary of start date (COMDATE)	Otherwise

HESESFTE_2

77. This field contains the estimated FTE for the part of the instance period that occurs in the 2020-21 academic year, but in the 2019-20 year of instance. This field is only shown in the instance period file.

Value	Description	Definition
(((HESENDDATE_IN19 – 01/08/2020) + 1) / ((31/07/2020 – HESSTARTDATE_IN19) + 1)) x HESESFTE_1	Estimated FTE for 2019-20 year of instance between 1 August 2020 and day before anniversary of start date (COMDATE) in following academic year, inclusive	HESENDCASE = 4, 5
0	No FTE because instance period ended before 1 August 2020	Otherwise

HESESFTE_3_IN18

78. This field contains the estimated FTE for the part of the instance period that occurred in the 2019-20 academic year, but in the 2018-19 year of instance, for instance periods that started on or after 1 August 2019. This field is only shown in the instance period file.

Value	Description	Definition
HESSTULOAD_PX	Estimated FTE for 2018-19 year of instance between 1 August 2019 and day before anniversary of start date (COMDATE), inclusive, if instance period started on or after 1 August 2019 and ended before anniversary of start date	HESSTARTCASE = 2 and HESENDCASE = 2
$(((\text{HESENDDATE\_IN18} - \text{HESSTARTDATE\_AC19}) + 1)$ $/ ((\text{HESENDDATE\_AC19} - \text{HESSTARTDATE\_IN19}) + 1))$ $\times \text{HESESFTE\_1}$	Estimated FTE for 2018-19 year of instance between 1 August 2019 and day before anniversary of start date (COMDATE), inclusive, if instance period started on or after 1 August 2019 and before anniversary of start date, and ended on or after anniversary of start date	HESSTARTCASE = 2 and HESENDCASE = 3, 4, 5
0	No FTE because instance period started on or after anniversary of start date (COMDATE), or before 1 August 2019	Otherwise

Instance period exclusions

79. Each instance period is assessed to determine whether it is included in the HESES19 population. The following derived fields explain the reasons for an instance period being excluded.

HESEXCL1_PX

80. Field indicating that a course aim of National Vocational Qualification (NVQ) or Qualified Teacher Status (QTS) only, or visiting students, is associated with the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	NVQ or QTS only or visiting student course aim associated with the instance period	HESCOURSEAIM_PX = C43, E40, H43, H91, I71, I91, J43, J45, L91, M43, M45, M91
0	Otherwise	Otherwise

HESEXCL2_PX

81. Field indicating instance period with no qualification aim. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	No qualification aim associated with the instance period	HESCOURSEAIM_PX = C99, H99, I99, J99, M99
0	Otherwise	Otherwise

HESEXCL4_PX

82. Field indicating student is taught mostly outside of the UK for the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	Student taught mostly outside the UK for the instance period	HESLOCSDY_PX = S and HESMSTUFEE_PX ≠ 02, 03, 04, 52, 53, 54
0	Otherwise	Otherwise

HESEXCL8_PX

83. Field indicating student is dormant, on sabbatical or writing up for the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	Student who is dormant, on sabbatical or writing up for the instance period	HESMODE_PX = 43, 44 or HESSTULOAD_PX = 0
0	Otherwise	Otherwise

HESEXCL16_PX

84. Field indicating incoming exchange student for the instance period. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	Incoming exchange student for the instance period	HESEXCHIND_PX = 1
0	Otherwise	Otherwise

HESEXCL32_PX

85. Field indicating that the instance period started before 1 August 2019 (i.e. before the 2019-20 academic year) and ended before the anniversary of the start date (COMDATE) of the instance (i.e. before the 2019-20 year of instance). The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	Started before 2019-20 academic year and ended before 2019-20 year of instance	HESSTARTCASE = 1 and HESENDCASE = 1, 2
0	Otherwise	Otherwise

HESEXCL_PX

86. This field indicates whether the instance period is included in the HESES19 population. For instance periods excluded from the population, HESEXCL_PX contains the sum of all applicable values from the table below. X is equal to the value of HESPERIODNUM. The individualised file shows the value of this field for the top three ranked instance periods.

Value	Description	Definition
1	NVQ or QTS only or visiting student course aim associated with the instance period	HESEXCL1_PX = 1
2	No qualification aim associated with the instance period	HESEXCL2_PX = 1
4	Student taught mostly outside the UK for the instance period	HESEXCL4_PX = 1
8	Student who is dormant, on sabbatical or writing up for the instance period	HESEXCL8_PX = 1
16	Incoming exchange student for the instance period	HESEXCL16_PX = 1
32	Started before 2019-20 academic year and ended before 2019-20 year of instance	HESEXCL32_PX = 1
0	Otherwise	None of the above

87. This field contains the exclusion reason(s) for the instance period. It is calculated as (1 × HESEXCL1_PX) + (2 × HESEXCL2_PX) + ... + (32 × HESEXCL32_PX). The reason(s) which contribute to the exclusion of an instance period can therefore be calculated. For example, if HESEXCL_PX = 10, by subtracting figures from the above table and starting at the bottom, we see that the instance period is associated with a student who is dormant, on sabbatical or writing up (HESEXCL8_PX = 1) and that there is no qualification aim associated with the instance period (HESEXCL2_PX = 1).

Instance derived fields

88. The instance period with (HESPERIODNUM = 1) is used in the algorithms for the instance derived fields. Some of these derived fields are shown in the instance period file as well as the individualised file; these are: HESANNIV, HESCOL4, HESCOL4_A, HESCOL4_B, HESCOL4_C1, HESCOL4_C2, HESCOL4_D, HESCOL4_PROFX, HESEXCL, HESHEALTHPOP, HESHEALTHPROF1-2, HESHEALTHYEAR, HESLENGTH, HESLEVEL, HESMODE, HESREG and HESTYPE.

HESANNIV

89. This field contains the anniversary of the start date (COMDATE) in the current academic year.

HESANNIV20

90. This field contains the anniversary of the start date (COMDATE) in the following academic year. This field is only shown in the instance period file.

HESREG

91. This field assigns students to Column 1 or 2 of Tables 1 to 3 of the HESES recreation.

Value	Description	Definition
1	Column 1 student	HESANNIV < 2 December 2019
2	Column 2 student	Otherwise

HESMODE

92. This field allocates students to a mode of study.

Value	Description	Definition
FTS	Full-time	HESMODE_P1 = 01 or (HESMODE_P1 = 23, 24 and HESLOCSDY_P1 ≠ D)
SWOUT	Sandwich year out	HESMODE_P1 = 23, 24 and HESLOCSDY_P1 = D
PT	Part-time	Otherwise

HESHEALTHPROF1-2

93. These fields identify the profession(s) of a nursing, midwifery and allied health course.

Value	Description	Definition
DENTHE	Dental therapy	HESREGBODYX_P1 = 36
DENHYG	Dental hygiene	HESREGBODYX_P1 = 37
DIETET	Dietetics	HESREGBODYX_P1 = 44
NURSUN	Nursing - unclassified	HESREGBODYX_P1 = 06
NURSAD	Nursing - adult	HESREGBODYX_P1 = 61
NURSCH	Nursing - children	HESREGBODYX_P1 = 62
NURSLD	Nursing - learning disability	HESREGBODYX_P1 = 63
NURSMH	Nursing - mental health	HESREGBODYX_P1 = 64
MIDWIF	Midwifery	HESREGBODYX_P1 = 65
OCCTHE	Occupational therapy	HESREGBODYX_P1 = 46
OPDEPT	Operating department practice	HESREGBODYX_P1 = 47
ORTHOP	Orthoptics	HESREGBODYX_P1 = 48

Value	Description	Definition
ORTPRO	Orthotics and prosthetics	HESREGBODYX_P1 = 52
PHYSIO	Physiotherapy	HESREGBODYX_P1 = 50
PODCHI	Podiatry	HESREGBODYX_P1 = 42
RADTHE	Radiography (therapeutic)	HESREGBODYX_P1 = 56
RADDIA	Radiography (diagnostic)	HESREGBODYX_P1 = 57
SPELAN	Speech and language therapy	HESREGBODYX_P1 = 55
BLANK	Otherwise	Otherwise

HESLEVEL

94. This field allocates students to a level of study.

Value	Description	Definition
UG	Undergraduate	FUNDLEV = 10, 11

PGT_UGF	Postgraduate taught and eligible under the undergraduate student support regime	FUNDLEV = 20, 21 and
		(HESTTCID_P1 = 1, 2, Q or
		    HESCOURSEAIM_P1 = H88 or
		    (HESCOURSEAIM_P1 = M88 and
		        HESINITIATIVES1_P1 ≠ U and
		        HESINITIATIVES2_P1 ≠ U and
		        HESINITIATIVES3_P1 ≠ U) or
		    (HESCOURSEAIM_P1 = M16, M86, H62 and
		        (HESHEALTHPROF1 ≠ BLANK or
		        HESHEALTHPROF2 ≠ BLANK)))

PGT_ML	Postgraduate taught course eligible for masters' loans	FUNDLEV = 20, 21 and
		(HESCOURSEAIM_P1 = M00, M01, M10, M11, M88 or
		    (HESCOURSEAIM_P1 = M16 and
		        HESHEALTHPROF1 = BLANK and
		        HESHEALTHPROF2 = BLANK)) and
		(HESINITIATIVES1_P1 = U or HESINITIATIVES2_P1 = U or
		    HESINITIATIVES3_P1 = U)

PGT_OTH	Postgraduate taught course that does not fall under the previous two categories	FUNDLEV = 20, 21 and not above
PGR	Postgraduate research	FUNDLEV = 30, 31

HESEC

95. This field indicates whether a student has a UK, other Home and EU, or other domicile.

Value	Description	Definition
UK	UK-domiciled	DOMICILE = XF, XG, XH, XI, XK

Value	Description	Definition
OEU	Other Home and EU domiciled	DOMICILE = AI, AN, AT, AW, AX, BE, BG, BL, BM, BQ, CH, CW, CZ, DE, DK, EE, ES, EU, FI, FK, FO, FR, GF, GI, GL, GP, GR, GS, HR, HU, IC, IE, IS, IT, KY, LI, LT, LU, LV, MF, MQ, MS, MT, NC, NL, NO, PF, PL, PM, PN, PT, RE, RO, SE, SH, SI, SK, SX, TC, VG, WF, XA, YT
OTHER	Otherwise	Otherwise

HESTYPE

96. This field allocates students to the three categories of fundability and residential status.

Value	Description	Definition
HOMENF	Home and EU non-fundable	(FUNDCODE = 1 and HESLEVEL = PGR) or (FUNDCODE = 2, 5, 7 and HESEC = UK, OEU)
HOMEF	Home and EU fundable	FUNDCODE = 1 and not above
ISOV	Island and overseas	Otherwise

HESRESSTAT

97. This field allocates students to the five categories of fundability and residential status.

Value	Description	Definition
HOMEF_UK	Fundable, UK-domiciled	HESTYPE = HOMEF and HESEC = UK
HOMEF_OTH	Fundable, other Home and EU	HESTYPE = HOMEF and not above
HOMENF_UK	Non-fundable, UK-domiciled	HESTYPE = HOMENF and HESEC = UK
HOMENF_OTH	Non-fundable, other Home and EU	HESTYPE = HOMENF and not above
ISOV	Island and overseas	HESTYPE = ISOV

HESLENGTH

98. This field indicates whether the student is on a standard or long year of instance.

Value	Description	Definition
L	Long	FUNDLEV = 11, 21, 31
S	Standard	Otherwise

HESCRSELGTH

99. This field contains the expected length of the course in whole numbers of years. Expected course lengths that contain a fraction of a year that exceeds two weeks are rounded up to the next whole year. Otherwise the value is rounded down to the nearest whole year, except where the expected course length is less than one year – such expected course lengths will be rounded up to one year. For example, an expected length of course that is one year and three

weeks will be rounded up to two years. An expected length of course that is one year and one week will be rounded down to one year.

Value	Definition
SPLENGTH	UNITLGTH = 1
SPLENGTH / 12	UNITLGTH = 2
SPLENGTH / 52	UNITLGTH = 3
6	UNITLGTH = 9
1	Otherwise

HESMDV

100. This field identifies undergraduate pre-clinical and clinical medicine, dentistry and veterinary science students.

Value	Description	Definition
UMED	Undergraduate pre-clinical or clinical medicine student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 01
UDEN	Undergraduate pre-clinical or clinical dentistry student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 30
UVET	Undergraduate pre-clinical or clinical veterinary science student	HESLEVEL = UG and HESCOURSEAIM_P1 = H16, I16, M26 and HESREGBODY1_P1 = 14 and (HESSBJCA1_P1 = 100531, 101347, 101384 or HESSBJCA2_P1 = 100531, 101347, 101384 or HESSBJCA3_P1 = 100531, 101347, 101384 or HESSBJCA4_P1 = 100531, 101347, 101384 or HESSBJCA5_P1 = 100531, 101347, 101384)
OTH	Otherwise	Otherwise

HESCLIN

101. This field identifies clinical medicine, dentistry and veterinary science students who are assigned to price group A.

Value	Description	Definition
1	Undergraduate clinical medicine, dentistry or veterinary science student assigned to price group A	(HESMDV = UMED and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2) or (HESMDV = UDEN and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2, 3) or (HESMDV = UVET and (HESCRSELGTH – HESYEARPRG_P1) = 0, 1, 2, 3, 4)

Value	Description	Definition
2	Postgraduate clinical medicine or dentistry student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (HESSBJCA1_P1 = 100266, 100267, 100494 or HESSBJCA2_P1 = 100266, 100267, 100494 or HESSBJCA3_P1 = 100266, 100267, 100494 or HESSBJCA4_P1 = 100266, 100267, 100494 or HESSBJCA5_P1 = 100266, 100267, 100494)
3	Postgraduate clinical veterinary science student assigned to price group A	HESLEVEL = PGR, PGT_ML, PGT_OTH, PGT_UGF and (HESSBJCA1_P1 = 100531, 101347 or HESSBJCA2_P1 = 100531, 101347 or HESSBJCA3_P1 = 100531, 101347 or HESSBJCA4_P1 = 100531, 101347 or HESSBJCA5_P1 = 100531, 101347)
0	Otherwise	Otherwise

HESPRGA, HESPRGB, HESPRGC1, HESPRGC2, HESPRGD

102. The proportion of activity in each price group. The Common Aggregation Hierarchy (CAH) codes listed include all sub-levels, unless otherwise stated.

Field name	Definition	Value
HESPRGC2	HESMODE = SWOUT	1
HESPRGA	HESCLIN = 1, 2, 3 or (HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = DENHYG, DENTHE or HESHEALTHPROF2 = DENHYG, DENTHE)) and not above	1
HESPRGB	HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN or HESHEALTHPROF2 = DIETET, MIDWIF, OCCTHE, OPDEPT, ORTHOP, ORTPRO, PHYSIO, PODCHI, RADTHE, RADDIA, SPELAN) and not above	1
HESPRGC1	HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and (HESHEALTHPROF1 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH or HESHEALTHPROF2 = NURSUN, NURSAD, NURSCH, NURSLD, NURSMH) and not above	1
HESPRGC2	HESTTCID_P1 = 1, 2, 5, Q or HESREGBODY1_P1 = 54 or HESREGBODY2_P1 = 54 and not above	1

Field name	Definition	Value
HESPRGB	HESSBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes: CAH01, CAH02-02, CAH02-05, CAH02-06-01, CAH02-06-02, CAH02-06-03, CAH02-06-06 (only when HESSBJCAX_P1 = 100241, 100243), CAH03-01-01, CAH03-01-02, CAH03-01-03, CAH03-01-04, CAH03-01-05, CAH03-01-06, CAH03-01-07, CAH03-01-08, CAH03-01-10, CAH05, CAH06-01-01, CAH06-01-02, CAH06-01-03, CAH06-01-05, CAH06-01-07, CAH07, CAH10-01-01, CAH10-01-02, CAH10-01-03 (only when HESSBJCAX_P1 = 100152, 100170, 100193, 100201, 100202, 100205, 100206, 100209, 100211, 101397, 101398), CAH10-01-04, CAH10-01-05, CAH10-01-06, CAH10-01-07 (only when HESSBJCAX_P1 = 100120, 100148, 100153, 100154, 100156, 100157, 100180, 100551, 100565), CAH10-01-08, CAH10-01-09, CAH10-01-10, CAH10-03-01, CAH10-03-02, CAH10-03-03, CAH10-03-04, CAH10-03-05, CAH10-03-06 (only when HESSBJCAX_P1 = 100186, 100222, 100230, 100560, 101356), CAH10-03-07, CAH15-01-04 (only when HESSBJCAX_P1 = 101218), CAH26-01-04, CAH26-01-06 and not above	Sum of HESSBJPCNT1_P1, HESSBJPCNT2_P1, HESSBJPCNT3_P1, HESSBJPCNT4_P1, HESSBJPCNT5_P1 divided by 100
HESPRGC1	HESSBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes: CAH10-01-03 (only when HESSBJCAX_P1 = 100109, 100110), CAH11, CAH20-01-03, CAH24-01-01, CAH24-01-03, CAH24-01-04, CAH24-01-05, CAH25, CAH26-01-05 (only when HESSBJCAX_P1 = 100369) and not above	Sum of HESSBJPCNT1_P1, HESSBJPCNT2_P1, HESSBJPCNT3_P1, HESSBJPCNT4_P1, HESSBJPCNT5_P1 divided by 100
HESPRGC2	HESSBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes: CAH02-04, CAH02-06-04, CAH02-06-05, CAH02-06-06 (only when HESSBJCAX_P1 = 100233, 100234, 100235, 100236, 100237, 100239, 100242, 100253, 100739, 101241, 101340, 101375), CAH02-06-07, CAH03-01-09, CAH03-02, CAH04, CAH06-01-06, CAH06-01-08, CAH09, CAH10-01-03 (only when HESSBJCAX_P1 = 100213), CAH10-01-07 (only when HESSBJCAX_P1 = 100219, 100548, 100549, 101048), CAH10-03-06 (only when HESSBJCAX_P1 = 100093), CAH13, CAH15-04-03, CAH17-01-06, CAH19-04-01, CAH19-04-02, CAH19-04-03, CAH19-04-04, CAH19-04-05, CAH19-04-06, CAH19-04-07, CAH19-04-09, CAH26-01-01, CAH26-01-02, CAH26-01-03, CAH26-01-05 (only when HESSBJCAX_P1 = 101056) and not above	Sum of HESSBJPCNT1_P1, HESSBJPCNT2_P1, HESSBJPCNT3_P1, HESSBJPCNT4_P1, HESSBJPCNT5_P1 divided by 100

Field name	Definition	Value
HESPRGD	HESSBJCAX_P1 corresponds to one of the following Common Aggregation Hierarchy codes: CAH06-01-04, CAH15-01-01, CAH15-01-02, CAH15-01-03, CAH15-01-04 (only when HESSBJCAX_P1 = 100436, 100437, 100663), CAH15-01-05, CAH15-01-06, CAH15-02, CAH15-03, CAH15-04-01, CAH15-04-02, CAH16, CAH17-01-01, CAH17-01-02, CAH17-01-03, CAH17-01-04, CAH17-01-05, CAH17-01-07, CAH17-01-08, CAH17-01-09, CAH19-01, CAH19-02, CAH19-04-08, CAH20-01-01, CAH20-01-02, CAH20-01-04, CAH20-01-05, CAH20-02, CAH22, CAH23, CAH24-01-02 and not above	Sum of HESSBJPCNT1_P1, HESSBJPCNT2_P1, HESSBJPCNT3_P1, HESSBJPCNT4_P1, HESSBJPCNT5_P1 divided by 100

HESBROADLEVEL

103. This field shows the broad level of study in 2019-20 for the purpose of determining new entrant status.

Value	Description	Definition
UG	Undergraduate	HESLEVEL = UG
PGT	Postgraduate taught	HESLEVEL = PGT_UGF, PGT_ML, PGT_OTH
PGR	Postgraduate research	HESLEVEL = PGR

HESUG17

104. This field indicates how many undergraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2017-18 HESA AP Student record (HESLEVEL in 2017-18 = UG). This field will be blank if no HESA AP Student data is available for the provider in 2017-18.

HESUG18

105. This field indicates how many undergraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2018-19 HESA AP Student record (HESLEVEL in 2018-19 = UG). This field will be blank if no HESA AP Student data is available for the provider in 2018-19.

HESPGT17

106. This field indicates how many postgraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2017-18 HESA AP Student record (HESLEVEL in 2017-18 = PGT_ML, PGT_OTH, PGT_UGF). This field will be blank if no HESA AP Student data is available for the provider in 2017-18.

HESPGT18

107.   This field indicates how many postgraduate taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2018-19 HESA AP Student record (HESLEVEL in 2018-19 = PGT_ML, PGT_OTH, PGT_UGF). This field will be blank if no HESA AP Student data is available for the provider in 2018-19.

HESPGR17

108. This field indicates how many postgraduate research taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2017-18 HESA AP Student record (HESLEVEL in 2017-18 = PGR). This field will be blank if no HESA AP Student data is available for the provider in 2017-18.

HESPGR18

109.   This field indicates how many postgraduate research taught years of instance for a higher education course recognised for OfS funding purposes were associated with the UKPRN and HUSID in the 2018-19 HESA AP Student record (HESLEVEL in 2018-19 = PGR). This field will be blank if no HESA AP Student data is available for the provider in 2018-19.

HESNEWENTRANT

110. This field indicates whether the student is a new entrant.

Value	Description	Definition
1	Has not been active at the same broad level at the registering provider in either of the two previous academic years, linked by UKPRN and HUSID	COMDATE > 31 July 2019 and HESEXCL = 0 and ((HESBROADLEVEL = UG and HESUG17 = 0, BLANK and HESUG18 = 0, BLANK) or (HESBROADLEVEL = PGT and HESPGT17 = 0, BLANK and HESPGT18 = 0, BLANK) or (HESBROADLEVEL = PGR and HESPGR17 = 0, BLANK and HESPGR18 = 0, BLANK))
0	Otherwise	Otherwise

111.   Where a student starts more than one instance at the same broad level in the same academic year and could be considered as a new entrant for each instance they will be recorded as a new entrant for only one. If one such instance has an earlier start date than the others the student will be recorded as a new entrant for that instance.

HESHEALTHPROP1

112. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROF1.

Value	Definition
1	(HESHEALTHPROF1 ≠ BLANK and HESHEALTHPROF2 = BLANK) or HESHEALTHPROF1 = DENTHE

Value	Definition
0.5	HESHEALTHPROF1 ≠ BLANK and HESHEALTHPROF2 ≠ BLANK, DENTHE and not above
0	Otherwise

HESHEALTHPROP2

113. This field shows the proportion of the student's activity that is allocated to the health profession shown in HESHEALTHPROF2.

Value	Definition
1	(HESHEALTHPROF1 = BLANK and HESHEALTHPROF2 ≠ BLANK) or HESHEALTHPROF2 = DENTHE
0.5	HESHEALTHPROF1 ≠ BLANK, DENTHE and HESHEALTHPROF2 ≠ BLANK and not above
0	Otherwise

HESHEALTHYEAR

114. This field identifies whether the student started their course in 2016-17, 2017-18, 2018-19, 2019-20 or another academic year.

Value	Description	Definition
2019-20	Student started in the 2019-20 academic year	COMDATE > 31 July 2019 and COMDATE < 1 August 2020
2018-19	Student started in the 2018-19 academic year	COMDATE > 31 July 2018 and COMDATE < 1 August 2019
2017-18	Student started in the 2017-18 academic year	COMDATE > 31 July 2017 and COMDATE < 1 August 2018
2016-17	Student started in the 2016-17 academic year	COMDATE > 31 July 2016 and COMDATE < 1 August 2017
OTHER	Otherwise	Otherwise

HESHEALTHPOP

115. This field identifies students that will be included in Tables 6a, 6b and 6c. The population is defined in the HESES19 guidance (Annex L, paragraph 3).

Value	Description	Definition
1	Included in Tables 6a, 6b and 6c	HESEXCL = 0 and HESCOURSEAIM_P1 = H16, H62, I16, J26, M16, M26, M86 and HESLEVEL = UG, PGT_UGF and HESTYPE = HOMEF, HOMENF and (HESHEALTHPROF1 ≠ BLANK or HESHEALTHPROF2 ≠ BLANK)
0	Otherwise	Otherwise

HESDISALL

116.   This field indicates whether the student is receiving Disabled Students' Allowances.

Value	Description	Definition
1	Student is receiving Disabled Students' Allowances	At least one HESDISALL_PX† = 4
0	Otherwise	Otherwise

† This refers to all instance periods beyond the three that are shown.

HESSTULOAD

117.   This field is the sum of all values in HESSTULOAD_PX, across all instance periods.

Recreating Columns 3 and 4

HESNCOMPLEVEL_Y

118.   These fields identify the level at which HESNCOMPRATE_Y (where Y is each price group) is calculated for the year of instance.

Value	Description	Definition
BLANK	There is no activity in the price group for this instance in the 2019-20 HESA Student Alternative data.	HESPRGY = 0
BLANK	There is activity in the price group for this instance in the 2019-20 HESA Student Alternative data, but the year of instance is included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1
1	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode, level, residential and fundability status, price group and length, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
2	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode, level, residential and fundability status, and price group, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
3	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode and level, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
4	More than 9 years of instance in Columns 1 and 2 of Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) in HESES19 for this provider with the same mode, and not above.	HESPRGY > 0 and HESHEALTHPOP = 0
5	Otherwise	HESPRGY > 0 and HESHEALTHPOP = 0

HESNCOMPRATE_Y

119.   These fields show an estimate of the likelihood that the activity in each price group (Y = A, B, C1, C2, D) was not completed. Each estimate is based on a non-completion rate taken from HESES19 at the appropriate level as identified in HESNCOMPLEVEL_Y. This rate is calculated as follows: (-1 × Column 3) ÷ (Column 1 + Column 2).

Value	Definition
BLANK	HESNCOMPLEVEL_Y = BLANK
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode, level, residential and fundability status, price group and length.	HESNCOMPLEVEL_Y = 1
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode, level, residential and fundability status, and price group.	HESNCOMPLEVEL_Y = 2
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode and level.	HESNCOMPLEVEL_Y = 3
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider with the same mode.	HESNCOMPLEVEL_Y = 4
Calculated from years of instance in Tables 1, 2 and 3 (excluding those also included in Tables 6a, 6b and 6c) of HESES19 for this provider.	HESNCOMPLEVEL_Y = 5

HESNCOMPLEVEL_Z

120.   These fields identify the level at which HESNCOMPRATE_Z (Z = HESHEALTHPROFX) is calculated for the year of instance.

Value	Description	Definition
BLANK	The year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESHEALTHPOP = 0
BLANK	The year of instance is included in Tables 6a-6c of the HESES19 recreation, but there is no activity in the profession for this instance in the 2019-20 HESA Student Alternative data.	HESHEALTHPOP = 1 and (HESHEALTHPROFX ≠ Z or (HESHEALTHPROFX = Z and HESHEALTHPROPX = 0))
1	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode, profession, residential and fundability status, and level, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)
2	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode, profession, and residential and fundability status, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)

Value	Description	Definition
3	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode and profession, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)
4	More than 9 years of instance in Columns 1 and 2 of Tables 6a, 6b and 6c in HESES19 for this provider with the same mode, and not above.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)
5	Otherwise	HESHEALTHPOP = 1 and (HESHEALTHPROFX = Z and HESHEALTHPROPX ≠ 0)

HESNCOMPRATE_Z

121.   These fields show an estimate of the likelihood that the activity in each health profession (Z = HESHEALTHPROFX) was not completed. Each estimate is based on a non-completion rate taken from HESES19 at the appropriate level as identified in HESNCOMPLEVEL_Z. This rate is calculated as follows: (-1 × Column 3) ÷ (Column 1 + Column 2).

Value	Definition
BLANK	HESNCOMPLEVEL_Z = BLANK
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode, profession, residential and fundability status, and level.	HESNCOMPLEVEL_Z = 1
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode, profession, and residential and fundability status.	HESNCOMPLEVEL_Z = 2
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode and profession.	HESNCOMPLEVEL_Z = 3
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider with the same mode.	HESNCOMPLEVEL_Z = 4
Calculated from years of instance in Tables 6a, 6b and 6c of HESES19 for this provider.	HESNCOMPLEVEL_Z = 5

HESCOL3_PROFX

122.   These fields show the contribution of the activity in each health profession (X = 1, 2; Z = HESHEALTHPROFX) to Column 3 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation. Note that HESCOL3_PROF1 is the contribution for HESHEALTHPROF1, and HESCOL3_PROF2 is the contribution for HESHEALTHPROF2.

Value	Description	Definition
BLANK	The year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESHEALTHPOP = 0

Value	Description	Definition
0	The year of instance is included in Tables 6a-6c of the HESES19 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = BLANK or HESNCOMPRATE_Z = BLANK)
HESHEALTHPROPX × HESNCOMPRATE_Z	The contribution of the activity in the profession to Column 3 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation.	HESNCOMPRATE_Z ≠ BLANK

HESCOL3_Y

123.   These fields show the contribution of the activity in each price group (Y = A, B, C1, C2, D) to Column 3 of Tables 1-3 of the HESES19 recreation. (For years of instance included in Tables 6a-6c, they also show the contribution of the activity in each price group to Column 3 of Tables 6a-6c of the HESES19 recreation).

Value	Description	Definition
0	There is no activity in the price group for this instance.	HESPRGY = 0
HESPRGY × HESNCOMPRATE_Y	The contribution of the activity in the price group to Column 3 of Tables 1-3 of the HESES19 recreation, where the year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0
HESCOL3_PROF1 + HESCOL3_PROF2	The contribution of the activity in the price group to Column 3 of Tables 1-3 of the HESES19 recreation, where the year of instance is included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

HESCOL3

124.   This field shows the contribution of the year of instance to Column 3 of Tables 1-3 of the HESES19 re-creation. It is the sum of HESCOL3_A, HESCOL3_B, HESCOL3_C1, HESCOL3_C2 and HESCOL3_D.

HESCOL4_PROFX

125.   These fields show the contribution of the activity in each health profession (X = 1, 2; Z = HESHEALTHPROFX) to Column 4 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation. Note that HESCOL3_PROF1 is the contribution for HESHEALTHPROF1, and HESCOL3_PROF2 is the contribution for HESHEALTHPROF2.

Value	Description	Definition
BLANK	The year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESHEALTHPOP = 0

Value	Description	Definition
0	The year of instance is included in Tables 6a-6c of the HESES19 recreation, but a profession is not recorded, or there is no activity in the profession.	HESHEALTHPOP = 1 and (HESHEALTHPROFX = BLANK or HESNCOMPRATE_Z = BLANK)
HESHEALTHPROPX × (1 – HESNCOMPRATE_Z)	The contribution of the activity in the profession to Column 4 of Tables 1-3 and Tables 6a-6c of the HESES19 recreation.	HESNCOMPRATE_Z ≠ BLANK

HESCOL4_Y

126.   These fields show the contribution of the activity in each price group (Y = A, B, C1, C2, D) to Column 4 of Tables 1-3 of the HESES19 recreation. (For years of instance included in Tables 6a-6c, they also show the contribution of the activity in each price group to Column 4 of Tables 6a-6c of the HESES19 recreation).

Value	Description	Definition
0	There is no activity in the price group for this instance.	HESPRGY = 0
HESPRGY × (1 – HESNCOMPRATE_Y)	The contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation, where the year of instance is not included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 0
HESCOL4_PROF1 + HESCOL4_PROF2	The contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation, where the year of instance is included in Tables 6a-6c of the HESES19 recreation.	HESPRGY > 0 and HESHEALTHPOP = 1

HESCOL4

127.   This field shows the contribution of the year of instance to Column 4 of Tables 1-3 of the HESES19 recreation. It is the sum of HESCOL4_A, HESCOL4_B, HESCOL4_C1, HESCOL4_C2 and HESCOL4_D.

Instance exclusions

128.   The instance is assessed to determine whether it is included in the HESES19 population. The following derived fields explain the reasons for an instance being excluded.

HESEXCL1

129.   Field indicating students who have left prior to the start of the academic year.

Value	Description	Definition
1	Student not active in academic year	ENDDATE ≠ BLANK and ENDDATE < 1 August 2019
0	Otherwise	Otherwise

HESEXCL2

130. Field indicating National Vocational Qualification (NVQ) or Qualified Teacher Status (QTS) only or visiting students.

Value	Description	Definition
1	NVQ or QTS only or visiting student course aim associated with the first ranked instance period	HESEXCL1_P1 = 1
0	Otherwise	Otherwise

HESEXCL4

131. Field indicating students with no qualification aim.

Value	Description	Definition
1	No qualification aim associated with the first ranked instance period	HESEXCL2_P1 = 1
0	Otherwise	Otherwise

HESEXCL8

132. Field indicating students explicitly excluded from the HESES population.

Value	Description	Definition
1	Student explicitly excluded from the HESES population	FUNDLEV = 99 or FUNDCOMP = 9
0	Otherwise	Otherwise

HESEXCL16

133. Field indicating students who are mostly taught outside of the UK.

Value	Description	Definition
1	Student taught mostly outside of the UK for the first ranked instance period	HESEXCL4_P1 = 1
0	Otherwise	Otherwise

HESEXCL32

134. Field indicating students who are dormant, on sabbatical or writing up.

Value	Description	Definition
1	Student who is dormant, on sabbatical or writing up for the first ranked instance period	HESEXCL8_P1 = 1
0	Otherwise	Otherwise

HESEXCL64

135. Field indicating incoming exchange students.

Value	Description	Definition
1	Incoming exchange student for the first ranked instance period	HESEXCL16_P1 = 1
0	Otherwise	Otherwise

HESEXCL128

136. Field indicating students with a total STULOAD across all instance periods of less than 3.

Value	Description	Definition
1	Student with a total STULOAD of less than 3	HESSTULOAD < 3 or HESEXCL32_P1 = 1
0	Otherwise	Otherwise

HESEXCL256

137. Field indicating students on non-standard years of instance in their final year of study.

Value	Description	Definition
1	Student on a non-standard year of instance in their final year of study	ENDDATE < HESANNIV + 14 and ENDDATE ≠ BLANK
0	Otherwise	Otherwise

HESEXCL512

138. Field indicating students who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing.

Value	Description	Definition
1	Student who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing	ENDDATE ≠ BLANK and (ENDDATE < 2 December 2019 or ENDDATE – COMDATE < 14) and RSNEND ≠ 01, 98
0	Otherwise	Otherwise

HESEXCL

139. This field indicates whether the instance is included in the HESES19 population. For instances excluded from the population, HESEXCL contains the sum of all applicable values from the table below.

Value	Description	Definition
1	Student not active in academic year	HESEXCL1 = 1
2	NVQ, QTS only or visiting student	HESEXCL2 = 1
4	Student with no qualification aim	HESEXCL4 = 1
8	Student explicitly excluded from the HESES population	HESEXCL8 = 1
16	Student taught mostly outside of the UK	HESEXCL16 = 1
32	Student who is dormant, on sabbatical or writing up	HESEXCL32 = 1
64	Incoming exchange student	HESEXCL64 = 1
128	Student with a total STULOAD of less than 3	HESEXCL128 = 1
256	Student on non-standard year of instance in final year of study	HESEXCL256 = 1
512	Student who withdrew before 2 December 2019 or left within 14 days of starting the instance without completing	HESEXCL512 = 1
0	Otherwise	None of the above

140. This field contains the exclusion reason(s) for the instance. It is calculated as (1 × HESEXCL1) + (2 × HESEXCL2) + (4 × HESEXCL4) + … + (512 × HESEXCL512). The reason(s) which contribute to the exclusion of an instance can therefore be calculated. For example, if HESEXCL = 516, by subtracting figures from the above table and starting at the bottom, we see that the student withdrew before 2 December 2019 or left within 14 days of starting the instance without completing (HESEXCL512 = 1) and that the student does not have a qualification aim (HESEXCL4 = 1).

Overrides

HESOVER

141. This field indicates the primary derived field(s) that have been overridden for the student. For example, if HESOVER = 11, by subtracting figures from the following table starting at the bottom, we see that the student has had overrides for HESMODE (HESOVER = 8), HESREG (HESOVER = 2) and HESEXCL (HESOVER = 1) applied.

Value	Description
1	Override to HESEXCL
2	Override to HESREG
4	Override to HESTYPE
8	Override to HESMODE
16	Override to HESLEVEL
32	Override to HESPRGA, HESPRGB, HESPRGC1, HESPRGC2 or HESPRGD

Value	Description
64	Override to HESNEWENTRANT
128	Override to HESHEALTHPOP
256	Override to HESESFTE
512	Override to HESLENGTH
1024	Override to HESHEALTHPROP1/2
0	Otherwise

Estimating FTE

142.	The following derived fields estimate the FTE from each instance period for the 2019-20 year of instance.

HESESFTE_EXCLEST

143.	This is the estimated FTE from the instance period for the 2019-20 year of instance. It is the sum of HESESFTE_1 and HESESFTE_2. If HESPERIODSTART_PX indicates that there could be an instance period in the following academic year which starts before the anniversary of the start date of the instance, the value of this field does not include an estimate of the FTE from this period.

HESESFTE_INCLEST

144.	This is the estimated FTE from the instance period for the 2019-20 year of instance, plus an estimate of the FTE from an instance period which starts before the anniversary of the start date of the instance in the following academic year, if HESPERIODSTART_PX indicates that there could be such an instance period in the following academic year. It is the sum of HESESFTE_1, HESESFTE_2 and HESESFTE_3_IN18.

145.	In the instance period file (HES19_DCT_XXXXXXXX_INSTPER.csv) HESESFTE_INCLEST is shown as calculated.

146.	In the individualised file (HES19_DCT_XXXXXXXX_IND.csv) HESEXCL_INCLEST is instead shown as:

Value	Definition
100	HESEXCL = 0 and HESMODE = FTS
50	HESEXCL = 0 and HESMODE = SWOUT
Sum of HESESFTE_INCLEST for all instance periods included in the HESES19 population for this instance (capped at 100)	HESEXCL = 0 and HESMODE = PT and HESEXCL_PX = 0
0	Otherwise

FTEA_EXCLEST, FTEB_EXCLEST, FTEC1_EXCLEST, FTEC2_EXCLEST, FTED_EXCLEST

147.   The estimated FTE of the activity assigned to each price group, excluding the estimate of FTE from an instance period starting in the following academic year (where applicable), is contained in the five FTE fields as shown in the table below. These fields are calculated by multiplying the contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4_A, HESCOL4_B, HESCOL4_C1, HESCOL4_C2, HESCOL4_D) by HESESFTE_EXCLEST. Note that the contributions to Column 4 are derived from the instance period with (HESPERIODNUM = 1).

Field	Definition
FTEA_EXCLEST	HESCOL4_A x HESESFTE_EXCLEST
FTEB_EXCLEST	HESCOL4_B x HESESFTE_EXCLEST
FTEC1_EXCLEST	HESCOL4_C1 x HESESFTE_EXCLEST
FTEC2_EXCLEST	HESCOL4_C2 x HESESFTE_EXCLEST
FTED_EXCLEST	HESCOL4_D x HESESFTE_EXCLEST

FTEA_INCLEST, FTEB_INCLEST, FTEC1_INCLEST, FTEC2_INCLEST, FTED_INCLEST

148.   The estimated FTE of the activity assigned to each price group, including the estimate of FTE from an instance period starting in the following academic year (where applicable), is contained in the five FTE fields as shown in the table below. These fields are calculated by multiplying the contribution of the activity in the price group to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4_A, HESCOL4_B, HESCOL4_C1, HESCOL4_C2, HESCOL4_D) by HESESFTE_INCLEST. Note that the contributions to Column 4 are derived from the instance period with (HESPERIODNUM = 1).

Field	Definition
FTEA_INCLEST	HESCOL4_A x HESESFTE_INCLEST
FTEB_INCLEST	HESCOL4_B x HESESFTE_INCLEST
FTEC1_INCLEST	HESCOL4_C1 x HESESFTE_INCLEST
FTEC2_INCLEST	HESCOL4_C2 x HESESFTE_INCLEST
FTED_INCLEST	HESCOL4_D x HESESFTE_INCLEST

HESCOL4A

149.   This field is the estimated contribution of the instance period to the recreated HESES19 FTE for the year of instance. For part-time years of instance, this is used to populate Column 4a of Table 3. It is calculated by multiplying the contribution of the year of instance to Column 4 of Tables 1-3 of the HESES19 recreation (HESCOL4) by HESESFTE_INCLEST, and then dividing by 100. Note that the contribution to Column 4 is derived from the instance period with (HESPERIODNUM = 1).