2018-19 HESA alternative provider student data checking tool

HESES18B comparison FTE estimation technical document

Contents

Summary

1. This document describes the algorithms used to generate the data in the instance period file of the Higher Education Students Early Statistics survey 2018-19 (HESES18B) comparison output generated by the 2018-19 Higher Education Statistics Agency (HESA) alternative provider (AP) student data checking tool. Throughout the document, fields taken or derived from the HESA AP student record are shown in capitals.

2. Two new tables were added to the HESES18B comparison workbook on 14 October 2019 which contain estimates of full-time equivalents (FTE) for Column 1 and 2 countable years; to enable the rebuilding of figures in these tables, an instance period file is now included in the HESES18B comparison output.

3. This document is aimed at readers with in-depth knowledge of the data. Readers are advised to refer to the HESES18B comparison technical document (https://www.officeforstudents.org.uk/data-and-analysis/data-checking-tools/2018-19-hesa-alternative-provider-student-data-checking-tool/), the Coding Manual for the 2018-19 HESA AP student record (https://www.hesa.ac.uk/collection/c18054) and 'HESES18 Higher Education Students Early Statistics Survey 2018-19' (https://www.officeforstudents.org.uk/publications/heses18-higher-education-students-early-statistics-survey-2018-19/) when using this document.

4. The HESES18B comparison output now comprises three files. These are:

   a. HESES18B comparison workbook 'HES18B_DCT_XXXXXXXX.xlsx'.

   b. HESES18B comparison individualised file 'HES18B_DCT_XXXXXXXX_IND.csv'.

   c. HESES18B comparison instance period file 'HES18B_DCT_XXXXXXXX_INSTPER.csv'.

5. These files can be accessed via the Information Reporting Interface Service (IRIS) report which is available on HESA's data collection site at https://datacollection.hesa.ac.uk/.

Changes to HESES18B comparison workbook

6. The HESES18B comparison workbook 'HES18B_DCT_XXXXXXXX.xlsx' (where XXXXXXXX denotes the UK Provider Reference Number, UKPRN) now contains the following additional worksheets:

Table 1: Additional worksheets in the HESES18B comparison workbook

Workbook tab*	Title
FTE estimates	Table A: Estimated FTE for part-time OfS-fundable years of instance
FTE comparison	Table B: Estimate of load for part-time OfS-fundable years of instance

* Shading corresponds to the colour of the workbook tab.

7. The FTE of an instance for the 2018-19 year of instance is estimated from the HESSTULOAD_PX values of all instance periods of the instance that are included in the

HESES18 population. The instance period derived field HESEXCL_PX determines whether or not an instance period is included in the HESES18 population. Each instance period's HESPERIODSTART_PX and HESPERIODEND_PX dates are categorised, and the categories are used to calculate the proportion of HESSTULOAD_PX that can be attributed to the 2018-19 year of instance.

8. Table A shows the estimated Column 1 and 2 FTE in each price group and at each level, excluding the contribution for instance periods starting after 31 July 2019. It also shows the estimate, for each column, price group and level, of the contribution from instance periods starting after 31 July 2019.

9. Table B shows the estimated Column 1 and 2 FTE in each price group and at each level, including the contribution for instance periods starting after 31 July 2019, and compares these values with the FTE recorded in HESES18. It then compares the load (FTE ÷ years) calculated from Columns 1 and 2 years and FTE (using 2018-19 HESA AP student data) with the load calculated from Column 4 years and Column 4a FTE in HESES18.

10. The purpose of the additional tables is to assess the feasibility of using FTE estimated from instance period HESSTULOAD_PX values to verify FTE submitted in HESES workbooks. In addition, it provides a means of assessing the reasonableness of HESSTULOAD_PX values assigned to instance periods.

11. If the non-completion rate (as defined in 'HESES18 Higher Education Students Early Statistics Survey 2018-19') is the same for all courses and years of courses that contribute activity to a Column 1 and 2 FTE estimate shown in Table B, then, provided the estimation method is correct, we would expect the load calculated from this FTE estimate to be the same as the load calculated from HESES18 Columns 4 and 4a. However, the accuracy of the estimation method is hindered by the need to estimate the contribution of instance periods starting after 31 July 2019, which is assumed to be same as the contribution of instance periods starting after 31 July 2018 to the 2017-18 year of instance.

HESES18B comparison instance period file

12. You should use the instance period file 'HES18B_XXXXXXXX_INSTPER.csv' when working through this document. This shows the assignment of instance periods to categories by our algorithms and, where applicable, provides the data that has been used to determine their exclusion from the relevant population. Each instance period's PERIODSTART and PERIODEND dates are categorised, and the categories are used to calculate the proportion of STULOAD that can be attributed to the 2018-19 year of instance.

13. The HESES18B comparison FTE estimation rebuild document provides instructions for rebuilding key figures on the 'FTE estimates' and 'FTE comparison' worksheets in the workbook from the instance period file.

14. HESA AP student fields used to generate the instance period derived fields shown in the instance period file are listed in Table 2.

Table 2: Fields used to generate instance period derived fields shown in the instance period file

Entity	Field	Description	Column in individualised file
Instance	COMDATE	Start date of instance	R
Instance	ENDDATE	End date of instance	S
Instance	RSNEND	Reason for ending instance	U
Instance period	COURSEID	Course identifier	N/A
Instance period	EXCHIND	Exchange programmes	N/A
Instance period	LOCSDY	Location of study	N/A
Instance period	MODE	Mode of study	N/A
Instance period	MSTUFEE	Major source of tuition fees	N/A
Instance period	NOTACT	Not in active study	T
Instance period	PERIODEND	Instance period end date	N/A
Instance period	PERIODSTART	Instance period start date	N/A
Instance period	STULOAD	Student instance FTE	N/A
Course	COURSEAIM	General qualification aim of course	N/A

Instance period ranking

15. The instance period derived field HESEXCL_PX (where X is the number of the instance period, HESPERIODNUM) determines whether or not an instance period is included in the HESES18 population. Instance periods are ranked by whether or not they are in the HESES18 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.

16. The data associated with the first ranked instance period (where X = 1) is used to define the instance in the HESES18 population.

Description of derived fields

17. Fields derived from HESA AP student data and shown in the instance period file are listed in Table 3.

Table 3: Derived fields shown in the instance period file

Derived field name	Description	Paragraph	Column in individualised file
HESANNIV†	Anniversary of start date in current academic year	73	F
HESANNIV19	Anniversary of start date in following academic year	19	G
HESEXCL†	Reason(s) for exclusion from the HESES18 population	106	H
HESLEVEL†	Level of study	85	I
HESMODE†	Mode of study	84	J
HESPRGA†, HESPRGB†, HESPRGC1†, HESPRGC2†, HESPRGD†	Proportion of countable year in each price group	91, 93, 94, 92, 95	K – O
HESREG†	HESES18 Column 1 or 2 indicator	74	P
HESTYPE†	Fundability status	87	Q
HESPERIODNUM	Ranking of instance period	21	V
HESCOURSEAIM_PX	General qualification aim of course	22	W
HESCOURSEID_PX	Course identifier	23	X
HESEXCHIND_PX	Exchange programmes	24	Y
HESEXCL_PX	Reason(s) for exclusion of instance period	51	Z
HESEXCL1-16_PX	Instance period exclusions	46 – 50	AA – AE
HESLOCSDY_PX	Location of study	25	AF
HESMODE_PX	Mode of study	26	AG
HESMSTUFEE_PX	Major source of tuition fees	27	AH
HESPERIODSTART_PX	Instance period start date	28	AI
HESPERIODEND_PX	Instance period end date	29	AJ
HESSTULOAD_PX	Student instance FTE	30	AK
HESSTARTCASE	Instance period start date category	31	AL
HESENDCASE	Instance period end date category	32	AM
HESENDDATE_IN17	2017-18 year of instance end date	33	AN

Derived field name	Description	Paragraph	Column in individualised file
HESSTARTDATE_AC18	2018-19 academic year start date	34	AO
HESENDDATE_AC18	2018-19 academic year end date	35	AP
HESSTARTDATE_IN18	2018-19 year of instance start date	36	AQ
HESENDDATE_IN18	2018-19 year of instance end date	37	AR
HESESFTE_1	Estimated FTE in 2018-19 academic year for 2018-19 year of instance	38	AS
HESESFTE_2	Estimated FTE in 2019-20 academic year for 2018-19 year of instance	39	AT
HESESFTE_3_IN17	Estimated FTE in 2018-19 academic year for 2017-18 year of instance from instance period starting on or after 1 August 2018	40	AU
HESESFTE_EXCLEST	Estimated FTE for 2018-19 year of instance, excluding any estimate for instance period starting on or after 1 August 2019	41	AV
HESESFTE_INCLEST	Estimated FTE for 2018-19 year of instance, including any estimate for instance period starting on or after 1 August 2019	42	AW
FTEA_EXCLEST, FTEB_EXCLEST, FTEC1_EXCLEST, FTEC2_EXCLEST, FTED_EXCLEST	Estimated FTE of the activity assigned to each price group, calculated using HESESFTE_EXCLEST	43	AX, AZ, BB, BD, BF
FTEA_INCLEST, FTEB_INCLEST, FTEC1_INCLEST, FTEC2_INCLEST, FTED_INCLEST	Estimated FTE of the activity assigned to each price group, calculated using HESESFTE_INCLEST	44	AY, BA, BC, BE, BG

† The algorithms for deriving these fields are given in the 'HESES18B comparison technical document'; the paragraph references refer to this document.

Instance derived fields

18. The following instance derived fields are only shown in the instance period file. Please refer to the 'HESES18B comparison technical document' for a detailed description of the other instance derived fields shown in the instance period file.

HESANNIV19

19. This field contains the anniversary of the start date (COMDATE) in the following academic year.

Instance period derived fields

20. The following derived fields are used to define the instance periods of an instance.

HESPERIODNUM

21. 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 HESES18 population.

HESCOURSEAIM_PX

22. This field contains COURSEAIM for the instance period. X is equal to the value of HESPERIODNUM. HESCOURSEAIM_P1, HESCOURSEAIM_P2 and HESCOURSEAIM_P3 are also shown in the individualised file.

HESCOURSEID_PX

23. This field contains COURSEID for the instance period. X is equal to the value of HESPERIODNUM. HESCOURSEID_P1, HESCOURSEID_P2 and HESCOURSEID_P3 are also shown in the individualised file.

HESEXCHIND_PX

24. This field contains EXCHIND for the instance period. X is equal to the value of HESPERIODNUM. HESEXCHIND_P1, HESEXCHIND_P2 and HESEXCHIND_P3 are also shown in the individualised file.

HESLOCSDY_PX

25. This field contains LOCSDY for the instance period. X is equal to the value of HESPERIODNUM. HESLOCSDY_P1, HESLOCSDY_P2 and HESLOCSDY_P3 are also shown in the individualised file.

HESMODE_PX

26. This field contains MODE for the instance period. X is equal to the value of HESPERIODNUM. HESMODE_P1, HESMODE_P2 and HESMODE_P3 are also shown in the individualised file.

HESMSTUFEE_PX

27. This field contains MSTUFEE for the instance period. X is equal to the value of HESPERIODNUM. HESMSTUFEE_P1, HESMSTUFEE_P2 and HESMSTUFEE_P3 are also shown in the individualised file.

HESPERIODSTART_PX

28. This field contains PERIODSTART for the instance period. X is equal to the value of HESPERIODNUM. HESPERIODSTART_P1, HESPERIODSTART_P2 and HESPERIODSTART_P3 are also shown in the individualised file.

HESPERIODEND_PX

29. This field contains PERIODEND for the instance period. X is equal to the value of HESPERIODNUM. HESPERIODEND_P1, HESPERIODEND_P2 and HESPERIODEND_P3 are also shown in the individualised file.

HESSTULOAD_PX

30. This field contains STULOAD for the instance period. X is equal to the value of HESPERIODNUM. HESSTULOAD_P1, HESSTULOAD_P2 and HESSTULOAD_P3 are also shown in the individualised file.

HESSTARTCASE

31. This field categorises the instance period's start date (HESPERIODSTART_PX) in relation to the 2018-19 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 2018-19 year of instance, provided that it did not end before the anniversary of the start date of the instance.

Value	Description	Definition
1	Instance period started before 1 August 2018	HESPERIODSTART_PX < 1 August 2018
2	Instance period started on or after 1 August 2018, 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

32. This field categorises the instance period's end date (HESPERIODEND_PX) in relation to the 2018-19 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 2018-19 academic year, of the start date of the instance, it is treated as if it ended in the 2017-18 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 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.

Value	Description	Definition
1	Instance period ended before 1 August 2018	HESPERIODEND_PX < 1 August 2018
2	Instance period ended on or after 1 August 2018, 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 2019	HESPERIODEND_PX < 1 August 2019 and not above
4	Instance period ends on or after 1 August 2019, and before anniversary of start date (COMDATE) in following academic year	HESPERIODEND_PX < HESANNIV19 + 15 and not above
5	Instance period ends on or after anniversary of start date (COMDATE) in following academic year	HESPERIODEND_PX ≥ HESANNIV19 + 15

HESENDDATE_IN17

33. This field is the end date of the part of the instance period that occurred in the 2018-19 academic year for the year of instance that started in the 2017-18 academic year.

Value	Description	Definition
HESPERIODEND_PX	Instance period ended on or after 1 August 2018, 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 2018	Otherwise

HESSTARTDATE_AC18

34. This field is the start date of the part of the instance period that occurred in the 2018-19 academic year.

Value	Description	Definition
01/08/2018	Instance period started before 1 August 2018, and ended on or after 1 August 2018	HESSTARTCASE = 1 and HESENDCASE = 2, 3, 4, 5
HESPERIODSTART_PX	Instance period started on or after 1 August 2018	HESSTARTCASE = 2, 3
BLANK	Instance period ended before 1 August 2018	Otherwise

HESENDDATE_AC18

35. This field is the end date of the part of the instance period that occurred in the 2018-19 academic year and in the 2018-19 year of instance.

Value	Description	Definition
HESPERIODEND_PX	Instance period ended on or after anniversary of start date (COMDATE), and before 1 August 2019	HESENDCASE = 3
31/07/2019	Instance period ends on or after 1 August 2019	HESENDCASE = 4, 5
BLANK	Instance period ended before anniversary of start date (COMDATE)	Otherwise

HESSTARTDATE_IN18

36. This field is the start date of the part of the instance period that occurred in the 2018-19 year of instance.

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_IN18

37. This field is the end date of the part of the instance period that occurs in the 2019-20 academic year, but in the 2018-19 year of instance.

Value	Description	Definition
HESPERIODEND_PX	Instance period ends on or after 1 August 2019, and before anniversary of start date (COMDATE) in following academic year	HESENDCASE = 4
HESANNIV19 – 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 2019	Otherwise

HESESFTE_1

38. This field contains the estimated FTE for the part of the instance period that occurred in the 2018-19 academic year and the 2018-19 year of instance.

Value	Description	Definition
((HESENDDATE_AC18 – HESSTARTDATE_IN18 + 1) / (HESENDDATE_AC18 – HESSTARTDATE_AC18 + 1)) x HESSTULOAD_PX	Estimated FTE for 2018-19 year of instance between anniversary of start date (COMDATE) and 31 July 2019, inclusive	HESENDCASE = 3, 4, 5
0	No FTE because instance period ended before anniversary of start date (COMDATE)	Otherwise

HESESFTE_2

39. This field contains the estimated FTE for the part of the instance period that occurs in the 2019-20 academic year, but in the 2018-19 year of instance.

Value	Description	Definition
((HESENDDATE_IN18 – 01/08/2019 + 1) / (31/07/2019 – HESSTARTDATE_IN18 + 1)) x HESESFTE_1	Estimated FTE for 2018-19 year of instance between 1 August 2019 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 2019	Otherwise

HESESFTE_3_IN17

40. This field contains the estimated FTE for the part of the instance period that occurred in the 2018-19 academic year, but in the 2017-18 year of instance, for instance periods that started on or after 1 August 2018.

Value	Description	Definition
HESSTULOAD_PX	Estimated FTE for 2017-18 year of instance between 1 August 2018 and day before anniversary of start date (COMDATE), inclusive, if instance period started on or after 1 August 2018 and ended before anniversary of start date	HESSTARTCASE = 2 and HESENDCASE = 2
((HESENDDATE_IN17 – HESSTARTDATE_AC18 + 1) / (HESENDDATE_AC18 – HESSTARTDATE_IN18 + 1)) x HESESFTE_1	Estimated FTE for 2017-18 year of instance between 1 August 2018 and day before anniversary of start date (COMDATE), inclusive, if instance period started on or after 1 August 2018 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 2018	Otherwise

HESESFTE_EXCLEST

41. This is the estimated FTE from the instance period for the 2018-19 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

42. This is the estimated FTE from the instance period for the 2018-19 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_IN17.

FTEA_EXCLEST, FTEB_EXCLEST, FTEC1_EXCLEST, FTEC2_EXCLEST, FTED_EXCLEST

43. 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 appropriate price group field (HESPRGA, HESPRGB, HESPRGC1, HESPRGC2 and HESPRGD) by FTE (HESESFTE_EXCLEST).

Field	Definition
FTEA_EXCLEST	HESPRGA x HESESFTE_EXCLEST
FTEB_EXCLEST	HESPRGB x HESESFTE_EXCLEST
FTEC1_EXCLEST	HESPRGC1 x HESESFTE_EXCLEST
FTEC2_EXCLEST	HESPRGC2 x HESESFTE_EXCLEST
FTED_EXCLEST	HESPRGD x HESESFTE_EXCLEST

FTEA_INCLEST, FTEB_INCLEST, FTEC1_INCLEST, FTEC2_INCLEST, FTED_INCLEST

44. 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 appropriate price group field (HESPRGA, HESPRGB, HESPRGC1, HESPRGC2 and HESPRGD) by FTE (HESESFTE_INCLEST).

Field	Definition
FTEA_INCLEST	HESPRGA x HESESFTE_INCLEST
FTEB_INCLEST	HESPRGB x HESESFTE_INCLEST
FTEC1_INCLEST	HESPRGC1 x HESESFTE_INCLEST
FTEC2_INCLEST	HESPRGC2 x HESESFTE_INCLEST
FTED_INCLEST	HESPRGD x HESESFTE_INCLEST

Instance period exclusions

45. Each instance period is assessed to determine whether or not it is included in the HESES18 population. The following derived fields explain the reasons for an instance period being excluded.

HESEXCL1_PX

46. Field indicating that a course aim of NVQ or QTS only, or visiting students is associated with the instance period. X is equal to the value of HESPERIODNUM. HESEXCL1_P1, HESEXCL1_P2 and HESEXCL1_P3 are also shown in the individualised file.

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

47. Field indicating instance period with no qualification aim. X is equal to the value of HESPERIODNUM. HESEXCL2_P1, HESEXCL2_P2 and HESEXCL2_P3 are also shown in the individualised file.

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

HESEXCL4_PX

48. Field indicating students who are mostly taught outside of the UK for each instance period. X is equal to the value of HESPERIODNUM. HESEXCL4_P1, HESEXCL4_P2 and HESEXCL4_P3 are also shown in the individualised file.

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

49. Field indicating students who are dormant, on sabbatical or writing up for each instance period. X is equal to the value of HESPERIODNUM. HESEXCL8_P1, HESEXCL8_P2 and HESEXCL8_P3 are also shown in the individualised file.

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

50. Field indicating incoming exchange student for each instance period. X is equal to the value of HESPERIODNUM. HESEXCL16_P1, HESEXCL16_P2 and HESEXCL16_P3 are also shown in the individualised file.

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

HESEXCL_PX

51. This field indicates whether the instance period is included in the HESES18 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. HESEXCL_P1, HESEXCL_P2 and HESEXCL_P3 are also shown in the individualised file.

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
0	Otherwise	None of the above

52. This field contains the exclusion reason(s) for the instance period. It is calculated as (1 × HESEXCL1_PX) + (2 × HESEXCL2_PX) + ... + (16 × HESEXCL16_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).