

NSS Tutorial

Field	Type
ukprn	varchar(8)
institution	varchar(100)
subject	varchar(60)
level	varchar(50)
question	varchar(10)
A_STRONGLY_DISAGREE	int(11)
A_DISAGREE	int(11)
A_NEUTRAL	int(11)
A_AGREE	int(11)
A_STRONGLY_AGREE	int(11)
A_NA	int(11)
CI_MIN	int(11)
score	int(11)
CI_MAX	int(11)
response	int(11)
sample	int(11)
aggregate	char(1)

National Student Survey 2012

The National Student Survey <http://www.thestudentsurvey.com/> is presented to thousands of graduating students in UK Higher Education. The survey asks 22 questions, students can respond with STRONGLY DISAGREE, DISAGREE, NEUTRAL, AGREE or STRONGLY AGREE. The values in these columns represent PERCENTAGES of the total students who responded with that answer.

The table `nss` has one row per institution, subject and question.

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1.

The example shows the number who responded for:

- question 1
- at 'Edinburgh Napier University'
- studying '(8) Computer Science'

Show the the percentage who STRONGLY AGREE

```
SELECT A_STRONGLY_AGREE
FROM nss
WHERE question='Q01'
      AND institution='Edinburgh Napier University'
      AND subject='(8) Computer Science'
```

Submit SQL

Restore default

result

Calculate how many agree or strongly agree

2.

Show the institution and subject where the score is at least 100 for question 15.

```
SELECT institution, subject
FROM nss
WHERE question = 'Q15' AND score >= 100
```

Submit SQLRestore default

result

Unhappy Computer Students

3.

Show the institution and score where the score for '(8) Computer Science' is less than 50 for question 'Q15'

```
SELECT institution, score
FROM nss
WHERE question='Q15'
      AND score < 50
      AND subject='(8) Computer Science'
```

Submit SQLRestore default

result

More Computing or Creative Students?

4.

Show the subject and total number of students who responded to question 22 for each of the subjects '(8) Computer Science' and '(H) Creative Arts and Design'.

HINT

```
SELECT subject, SUM(response)
  FROM nss
 WHERE (question='Q22'
        AND subject='(8) Computer Science') OR
        (question='Q22'
        AND subject='(H) Creative Arts and Design')
 GROUP BY subject
```

Submit SQL

Restore default

result

Strongly Agree Numbers

5.

Show the subject and total number of students who **A_STRONGLY_AGREE** to question 22 for each of the subjects '(8) Computer Science' and '(H) Creative Arts and Design'.

HINT

```
SELECT subject,  
       SUM(A_STRONGLY_AGREE*response/100)  
FROM nss  
WHERE (question='Q22' AND subject='(H) Creative Arts and Design') OR  
       (question='Q22' AND subject='(8) Computer Science')  
GROUP BY subject
```

Submit SQL

Restore default

result

Strongly Agree, Percentage

6.

Show the percentage of students who **A_STRONGLY_AGREE** to question 22 for the subject '(8) Computer Science' show the same figure for the subject '(H) Creative Arts and Design'.

Use the **ROUND** function to show the percentage without decimal places.

```
SELECT subject, ROUND(SUM(A_STRONGLY_AGREE*response)/SUM(response))
FROM nss
WHERE (question='Q22' AND subject='(H) Creative Arts and Design') OR
      (question='Q22' AND subject='(8) Computer Science')
GROUP BY subject
```

Submit SQLRestore default

result

Scores for Institutions in Manchester

7.

Show the average scores for question 'Q22' for each institution that include 'Manchester' in the name.

The column **score** is a percentage - you must use the method outlined above to multiply the percentage by the **response** and divide by the total response. Give your answer rounded to the nearest whole number.

```
SELECT institution, ROUND(SUM(score*response)/SUM(response))  
FROM nss  
WHERE question='Q22'  
      AND (institution LIKE '%Manchester%')  
GROUP BY institution  
ORDER BY institution
```

Submit SQL

Restore default

result

Number of Computing Students in Manchester

8.

Show the institution, the total sample size and the number of computing students for institutions in Manchester for 'Q01'.

```
SELECT a.institution, sample, comp FROM
(SELECT institution,
      SUM(sample) as sample
FROM nss
WHERE question='Q01'
      AND (institution LIKE '%Manchester%')
GROUP BY institution
) a JOIN (
```

Submit SQLRestore default

result

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This page was last edited on 20 May 2014, at 15:48.