

--2.1

```
SELECT student_number, surname, first_name, gender FROM Student
EXCEPT
SELECT student_number, surname, first_name, gender FROM Student WHERE gender = 'F'
ORDER BY student_number
```

| student_number | surname | first_name | gender |
|----------------|---------|------------|--------|
| o210 | Kuikka | Kaarlo | M |
| o298 | Veto | Raimo | M |
| o349 | Keto | Matti | M |
| o354 | Huhta | Usko | M |
| o473 | Leino | Fredrik | M |
| o649 | Keto | Martti | M |
| o889 | Kaarlo | Kuikka | M |

(7 rows affected)

--2.2

```
SELECT first_name, surname, student_number, gender, city FROM Student
WHERE city = 'Espoo' OR city = 'Esbo' ORDER BY surname, first_name, student_number
```

| first_name | surname | student_number | gender | city |
|------------|----------|----------------|--------|-------|
| Greta | Hullerus | o558 | F | Esbo |
| Rosina | Laine | o654 | F | Espoo |

(2 rows affected)

--2.3

```
SELECT surname + ', ' + first_name AS "Name", city FROM Student WHERE city = 'Helsinki' ORDER BY
surname
```

| Name | city |
|-----------------|----------|
| Keto, Martti | Helsinki |
| Kuikka, Kaarlo | Helsinki |
| Rentukka, Sanna | Helsinki |
| Veto, Raimo | Helsinki |

(4 rows affected)

--2.4

```
SELECT surname, first_name, city FROM Student
EXCEPT
SELECT surname, first_name, city FROM Student WHERE city = 'Helsinki'
ORDER BY surname, first_name
```

| surname | first_name | city |
|---------|------------|------|
|---------|------------|------|

| | | |
|----------|---------|-----------|
| Huhta | Usko | Klaukkala |
| Hullerus | Greta | Esbo |
| Kaarlo | Kuikka | Klaukkala |
| Keto | Matti | Maisala |
| Käki | Kaarina | Vantaa |
| Laine | Rosina | Espoo |
| Leino | Fredrik | Kyrkslätt |
| Liimatta | Leila | Veikkola |
| Vuori | Valma | Kerava |

(9 rows affected)

--2.5

SELECT postcode, student_number **FROM** Student **ORDER BY** postcode, student_number

| postcode | student_number |
|----------|----------------|
| 00560 | o210 |
| 00560 | o649 |
| 00630 | o148 |
| 00680 | o298 |
| 01260 | o348 |
| 01590 | o349 |
| 01800 | o354 |
| 02320 | o558 |
| 02320 | o654 |
| 02400 | o473 |
| 02880 | o410 |
| 03210 | o889 |
| 04200 | o548 |

(13 rows affected)

--2.6

SELECT DISTINCT postcode **FROM** Student **ORDER BY** postcode

postcode

00560

00630

00680

01260

01590

01800

02320

02400

02880

03210

04200

(11 rows affected)

--2.7

SELECT city, postcode, surname, first_name FROM Student WHERE city = 'Espoo' or city = 'Esbo'
UNION

SELECT city, postcode, surname, first_name FROM Student WHERE city = 'Helsinki' AND (postcode
BETWEEN 00400 AND 00600)

ORDER BY city, postcode, surname, first_name

| city | postcode | surname | first_name |
|----------|----------|----------|------------|
| Esbo | 02320 | Hullerus | Greta |
| Espoo | 02320 | Laine | Rosina |
| Helsinki | 00560 | Keto | Martti |
| Helsinki | 00560 | Kuikka | Kaarlo |

(4 rows affected)

--2.8

SELECT postcode, city, surname, first_name FROM Student

EXCEPT

SELECT postcode, city, surname, first_name FROM Student WHERE postcode BETWEEN 00600 AND
03000

ORDER BY postcode, city, surname, first_name

| postcode | city | surname | first_name |
|----------|-----------|---------|------------|
| 00560 | Helsinki | Keto | Martti |
| 00560 | Helsinki | Kuikka | Kaarlo |
| 03210 | Klaukkala | Kaarlo | Kuikka |
| 04200 | Kerava | Vuori | Valma |

(4 rows affected)

--2.9

SELECT description FROM MisconductType WHERE description like 'A%' or description like 'C%' or
description like 'F%' or description like 'R%'

ORDER BY description

Assisting another student to cheat (e.g., by allowing own coursework to be copied)

Cheating in an exam

Collusion (unauthorized collaboration)

Copying of coursework from another student

Fabrication (making things up in research-oriented coursework)

Falsification (modifying data in research-oriented coursework)

Falsifying a list of attendees

Freeloading in a group work assignment

Refusal to take a drug test

(9 rows affected)

--2.10

```
SELECT description FROM MisconductType
EXCEPT
SELECT description FROM MisconductType
WHERE description like '%data%'
      OR description like '%research%'
      OR description like '%test%'
ORDER BY description
```

description

Assisting another student to cheat (e.g., by allowing own coursework to be copied)

Cheating in an exam

Collusion (unauthorized collaboration)

Copying of coursework from another student

Disturbing teaching or fellow students

Dual submission (submitting own work, which already has been graded for an earlier course, for a second course)

Falsifying a list of attendees

Freeloading in a group work assignment

Giving false information to University staff to gain an academic advantage

Lack of citation or improper citation

Submitting a paper or assignment that is retrieved from the Internet or a paper-mill

Use of intoxicants or being under the influence of intoxicants

(12 rows affected)

--2.11

```
SELECT DISTINCT surname FROM Teacher
WHERE surname like '%ka'
      OR surname like '%ko'
ORDER BY surname
surname
Matikka
Tahko
```

(2 rows affected)

--2.12

```
SELECT course_code, instance_number, start_date, end_date FROM CourseInstance
WHERE end_date IS NULL
ORDER BY
course_code, instance_number
```

| course_code | instance_number | start_date | end_date |
|-------------|-----------------|------------|----------|
| a290 | 2 | 2008-02-02 | NULL |
| a450 | 3 | 2008-01-01 | NULL |
| a730 | 4 | 2014-01-15 | NULL |

(3 rows affected)

--2.13

```
SELECT course_code, instance_number, student_number, grade From CourseGrade
WHERE grade IS NULL
ORDER BY course_code, instance_number, student_number
```

| course_code | instance_number | student_number | grade |
|-------------|-----------------|----------------|-------|
| a290 | 1 | o473 | NULL |
| a450 | 2 | o548 | NULL |

(2 rows affected)

--2.14

```
SELECT course_code, instance_number, student_number, grade From CourseGrade
WHERE course_code = 'a290' AND grade IS NOT NULL
ORDER BY course_code, grade, student_number
```

| course_code | instance_number | student_number | grade |
|-------------|-----------------|----------------|-------|
|-------------|-----------------|----------------|-------|

| | | | |
|------|---|------|---|
| a290 | 1 | o410 | 2 |
| a290 | 1 | o548 | 2 |
| a290 | 1 | o298 | 3 |
| a290 | 1 | o349 | 4 |

(4 rows affected)

--2.15

```
SELECT surname, first_name, 1.15*salary + 500 AS 'New salary', salary as 'Old salary' FROM Teacher
WHERE 1.15*salary + 500 > 18800
```

```
ORDER BY [New salary] DESC, surname, first_name
```

| surname | first_name | New salary | Old salary |
|----------|------------|------------|------------|
| Kiisseli | Marja | 29250.0000 | 25000.00 |
| Virta | Emma | 21315.0000 | 18100.00 |
| Vainio | Veera | 18956.3500 | 16049.00 |

(3 rows affected)

--2.16

```
SELECT surname, first_name, student_number,
(CASE
```

```
    WHEN gender= 'M' THEN 'Male'
```

```
    WHEN gender = 'F' THEN 'female'
```

```
END) AS 'gender'
```

```
FROM Student
```

```
ORDER BY surname, first_name, student_number
```

| surname | first_name | student_number | gender |
|----------|------------|----------------|--------|
| Huhta | Usko | o354 | Male |
| Hullerus | Greta | o558 | female |
| Kaarlo | Kuikka | o889 | Male |
| Keto | Martti | o649 | Male |
| Keto | Matti | o349 | Male |
| Kuikka | Kaarlo | o210 | Male |
| Käki | Kaarina | o348 | female |
| Laine | Rosina | o654 | female |
| Leino | Fredrik | o473 | Male |

| | | | |
|-----------------|-------|------|--------|
| Liimatta | Leila | o410 | female |
| Rentukka | Sanna | o148 | female |
| Veto | Raimo | o298 | Male |

(13 rows affected)

--2.17

```
SELECT start_date, end_date, course_code, instance_number FROM CourseInstance
EXCEPT
```

```
SELECT start_date, end_date, course_code, instance_number FROM CourseInstance
```

```
WHERE end_date < '2007-12-1' OR start_date > '2008-2-15'
```

```
ORDER BY start_date, course_code, instance_number
```

| start_date | end_date | course_code | instance_number |
|------------|------------|-------------|-----------------|
| 2007-12-01 | 2008-02-10 | a450 | 2 |
| 2008-01-01 | NULL | a450 | 3 |
| 2008-01-15 | 2008-02-23 | a480 | 2 |
| 2008-02-02 | NULL | a290 | 2 |

(4 rows affected)