CHAPTER 6

TASK 6.1 : How many students live in Lelystad? (the answer is 2)

```
mysql> SELECT woonplaats, count(woonplaats)
    -> FROM student
    -> GROUP BY woonplaats;
+------------+-------------------+
| woonplaats | count(woonplaats) |
+------------+-------------------+
| Almere     |                 3 |
| Lelystad   |                 2 |
| Zeewolde   |                 1 |
+------------+-------------------+
3 rows in set (0.00 sec)

mysql>
```

TASK 6.2 : What is the name and date of birth of the oldest student?

```
mysql> SELECT voorletters, tussenvoegsels, achternaam, MAX(geboortedatum)
    -> FROM student
    -> ;
+-------------+----------------+------------+--------------------+
| voorletters | tussenvoegsels | achternaam | MAX(geboortedatum) |
+-------------+----------------+------------+--------------------+
| P           |                | Pietersen  | 1998-06-06         |
+-------------+----------------+------------+--------------------+
1 row in set (0.01 sec)

mysql> SELECT voorletters, tussenvoegsels, achternaam, MAX(geboortedatum) as geboortedatum
    -> FROM student
    -> ;
+-------------+----------------+------------+---------------+
| voorletters | tussenvoegsels | achternaam | geboortedatum |
+-------------+----------------+------------+---------------+
| P           |                | Pietersen  | 1998-06-06    |
+-------------+----------------+------------+---------------+
1 row in set (0.00 sec)

mysql>
```

TASK 6.3 : How much school fees have already been payed

```
FROM student' at line 1
mysql> SELECT schoolgeld, betaald, SUM(schoolgeld), SUM(betaald), SUM(schoolgeld) - SUM(betaald)
    -> FROM student;
+------------+---------+-----------------+--------------+-------------------------------+
| schoolgeld | betaald | SUM(schoolgeld) | SUM(betaald) | SUM(schoolgeld) - SUM(betaald) |
+------------+---------+-----------------+--------------+-------------------------------+
|     500.00 |  500.00 |         2400.00 |      1600.00 |                        800.00 |
+------------+---------+-----------------+--------------+-------------------------------+
1 row in set (0.00 sec)

mysql> SELECT schoolgeld, betaald, SUM(schoolgeld), SUM(betaald), SUM(schoolgeld) - SUM(betaald) as 'nog te betalen'
    -> FROM student;
+------------+---------+-----------------+--------------+----------------+
| schoolgeld | betaald | SUM(schoolgeld) | SUM(betaald) | nog te betalen |
+------------+---------+-----------------+--------------+----------------+
|     500.00 |  500.00 |         2400.00 |      1600.00 |         800.00 |
+------------+---------+-----------------+--------------+----------------+
1 row in set (0.00 sec)

mysql>
```

TASK 6.4 : How much have the students who have to pay €500,- school fees already paid on average?

```
mysql> SELECT schoolgeld, betaald, AVG(betaald)
    -> FROM student
    -> GROUP BY schoolgeld;
+------------+---------+--------------+
| schoolgeld | betaald | AVG(betaald) |
+------------+---------+--------------+
|     200.00 |  200.00 |   150.000000 |
|     500.00 |  500.00 |   325.000000 |
+------------+---------+--------------+
2 rows in set (0.00 sec)

mysql>
```

TASK 6.5 : Show with a query how many female and male students are signed up.

```
3 rows in set (0.00 sec)

mysql> SELECT geslacht, COUNT(geslacht)
    -> FROM student
    -> GROUP BY geslacht;
+----------+-----------------+
| geslacht | COUNT(geslacht) |
+----------+-----------------+
|          |               1 |
| m        |               4 |
| v        |               1 |
+----------+-----------------+
3 rows in set (0.00 sec)

mysql> SELECT geslacht, COUNT(*)
    -> FROM student
    -> GROUP BY geslacht;
+----------+----------+
| geslacht | COUNT(*) |
+----------+----------+
|          |        1 |
| m        |        4 |
| v        |        1 |
+----------+----------+
3 rows in set (0.00 sec)

mysql>
```

TASK 6.6 : Make a query causing us to see how many female and male students come from Lelystad.

```
mysql> SELECT woonplaats, geslacht, COUNT(*)
    -> FROM student
    -> GROUP BY woonplaats, geslacht;
+------------+----------+----------+
| woonplaats | geslacht | COUNT(*) |
+------------+----------+----------+
| Almere     | m        |        3 |
| Lelystad   | m        |        1 |
| Lelystad   | v        |        1 |
| Zeewolde   |          |        1 |
+------------+----------+----------+
4 rows in set (0.00 sec)

mysql>
```

TASK 6.7 : Visualize all the different inserts that appear in the table.

```
mysql> SELECT tussenvoegsels
    -> FROM student;
+----------------+
| tussenvoegsels |
+----------------+
|                |
|                |
|                |
| van der        |
| de             |
| de             |
+----------------+
6 rows in set (0.00 sec)

mysql>
```

TASK 6.8 : In which places(s) do more than two students live?

```
mysql> SELECT tussenvoegsels
    -> FROM student;
+----------------+
| tussenvoegsels |
+----------------+
|                |
|                |
|                |
| van der        |
| de             |
| de             |
+----------------+
6 rows in set (0.00 sec)

mysql> SELECT woonplaats, COUNT(*)
    -> FROM student
    -> GROUP BY woonplaats
    -> HAVING COUNT(*) >= 2;
+------------+----------+
| woonplaats | COUNT(*) |
+------------+----------+
| Almere     |        3 |
| Lelystad   |        2 |
+------------+----------+
2 rows in set (0.01 sec)

mysql>
```

TASK 6.9 & 6.10 : How much has to be paid per place of residence?(make sure that only thosep laces where you still to pay are shown.)

```
mysql> SELECT woonplaats, schoolgeld, betaald, SUM(schoolgeld - betaald)
    -> FROM student
    -> GROUP BY woonplaats
    -> HAVING SUM(schoolgeld - betaald);
+------------+------------+---------+--------------------------+
| woonplaats | schoolgeld | betaald | SUM(schoolgeld - betaald) |
+------------+------------+---------+--------------------------+
| Lelystad   |     500.00 |    0.00 |                   600.00 |
| Zeewolde   |     500.00 |  300.00 |                   200.00 |
+------------+------------+---------+--------------------------+
2 rows in set (0.00 sec)

mysql> SELECT woonplaats, schoolgeld, betaald, SUM(schoolgeld - betaald) as 'nog te betalen'
    -> FROM student
    -> GROUP BY woonplaats
    -> HAVING SUM(schoolgeld - betaald);
+------------+------------+---------+----------------+
| woonplaats | schoolgeld | betaald | nog te betalen |
+------------+------------+---------+----------------+
| Lelystad   |     500.00 |    0.00 |         600.00 |
| Zeewolde   |     500.00 |  300.00 |         200.00 |
+------------+------------+---------+----------------+
2 rows in set (0.00 sec)

mysql> SELECT woonplaats, SUM(schoolgeld - betaald) as 'nog te betalen'
    -> FROM student
    -> GROUP BY woonplaats
    -> HAVING SUM(schoolgeld - betaald);
+------------+----------------+
| woonplaats | nog te betalen |
+------------+----------------+
| Lelystad   |         600.00 |
| Zeewolde   |         200.00 |
+------------+----------------+
2 rows in set (0.00 sec)

mysql>
```

TASK 6.11 : How much has to be paid per place of residence and per gender?

```
mysql> SELECT woonplaats, geslacht, schoolgeld, betaald, SUM(schoolgeld - betaald)
    -> FROM student
    -> GROUP BY woonplaats, geslacht
    -> HAVING SUM(schoolgeld - betaald);
+------------+----------+------------+---------+--------------------------+
| woonplaats | geslacht | schoolgeld | betaald | SUM(schoolgeld - betaald) |
+------------+----------+------------+---------+--------------------------+
| Lelystad   | m        |     500.00 |    0.00 |                   500.00 |
| Lelystad   | v        |     200.00 |  100.00 |                   100.00 |
| Zeewolde   |          |     500.00 |  300.00 |                   200.00 |
+------------+----------+------------+---------+--------------------------+
3 rows in set (0.00 sec)

mysql>
```