Kotitehtävät 3. SQL-kyselyitä pet-taulusta

a) Poistin Slimin tideot (jotka olivat tulleet vahingossa 2 kertaa taulukkoon) koska Puffball poistettiin jo tunnilla yhdessä.

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> select * from pet;
ERROR 1046 (3D000): No database selected
mysql> use mydb;
Database changed
mysql> select * from pet;
+----------+---------+------+------------+------------+-------+---------+
| name     | species | sex  | birth      | death      | petID | ownerID |
+----------+---------+------+------------+------------+-------+---------+
| Fluffy   | cat     | f    | 1993-02-04 | NULL       |     1 |       1 |
| Claws    | cat     | m    | 1994-03-17 | NULL       |     2 |       3 |
| Buffy    | dog     | f    | 1989-05-13 | NULL       |     3 |       1 |
| Fang     | dog     | m    | 1990-08-27 | NULL       |     4 |       4 |
| Bowser   | dog     | m    | 1989-08-31 | 1995-07-29 |     5 |    NULL |
| Chirpy   | bird    | f    | 1998-09-11 | NULL       |     6 |       3 |
| Whistler | bird    |      | 1997-12-09 | NULL       |     7 |       3 |
| Slim     | snake   | m    | 1996-04-29 | NULL       |     8 |       4 |
| Slim     | snake   | m    | 1996-04-29 | NULL       |     9 |       4 |
+----------+---------+------+------------+------------+-------+---------+
9 rows in set (0.01 sec)

mysql> DELETE FROM pet where name='Slim';
Query OK, 2 rows affected (0.01 sec)

mysql> select * from pet;
+----------+---------+------+------------+------------+-------+---------+
| name     | species | sex  | birth      | death      | petID | ownerID |
+----------+---------+------+------------+------------+-------+---------+
| Fluffy   | cat     | f    | 1993-02-04 | NULL       |     1 |       1 |
| Claws    | cat     | m    | 1994-03-17 | NULL       |     2 |       3 |
| Buffy    | dog     | f    | 1989-05-13 | NULL       |     3 |       1 |
| Fang     | dog     | m    | 1990-08-27 | NULL       |     4 |       4 |
| Bowser   | dog     | m    | 1989-08-31 | 1995-07-29 |     5 |    NULL |
| Chirpy   | bird    | f    | 1998-09-11 | NULL       |     6 |       3 |
| Whistler | bird    |      | 1997-12-09 | NULL       |     7 |       3 |
+----------+---------+------+------------+------------+-------+---------+
```

b)

```
ERROR 1406 (22001): Data too long for column 'sex' at row 1
mysql> UPDATE pet SET birth = '1998-08-31' WHERE name = 'Bowser';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from pet;
+----------+---------+------+------------+------------+-------+---------+
| name     | species | sex  | birth      | death      | petID | ownerID |
+----------+---------+------+------------+------------+-------+---------+
| Fluffy   | cat     | f    | 1993-02-04 | NULL       |     1 |       1 |
| Claws    | cat     | m    | 1994-03-17 | NULL       |     2 |       3 |
| Buffy    | dog     | f    | 1989-05-13 | NULL       |     3 |       1 |
| Fang     | dog     | m    | 1990-08-27 | NULL       |     4 |       4 |
| Bowser   | dog     | m    | 1998-08-31 | 1995-07-29 |     5 |    NULL |
| Chirpy   | bird    | f    | 1998-09-11 | NULL       |     6 |       3 |
| Whistler | bird    |      | 1997-12-09 | NULL       |     7 |       3 |
+----------+---------+------+------------+------------+-------+---------+
7 rows in set (0.00 sec)

mysql>
```

c)

```
mysql> UPDATE pet SET death = '2000-09-15' WHERE name = 'Chirpy';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from pet;
+----------+---------+------+------------+------------+-------+---------+
| name     | species | sex  | birth      | death      | petID | ownerID |
+----------+---------+------+------------+------------+-------+---------+
| Fluffy   | cat     | f    | 1993-02-04 | NULL       |     1 |       1 |
| Claws    | cat     | m    | 1994-03-17 | NULL       |     2 |       3 |
| Buffy    | dog     | f    | 1989-05-13 | NULL       |     3 |       1 |
| Fang     | dog     | m    | 1990-08-27 | NULL       |     4 |       4 |
| Bowser   | dog     | m    | 1998-08-31 | 1995-07-29 |     5 |    NULL |
| Chirpy   | bird    | f    | 1998-09-11 | 2000-09-15 |     6 |       3 |
| Whistler | bird    |      | 1997-12-09 | NULL       |     7 |       3 |
+----------+---------+------+------------+------------+-------+---------+
7 rows in set (0.00 sec)

mysql>
```

d)

```
mysql> SELECT * FROM pet WHERE birth >= '1990-1-1';
+----------+---------+------+------------+------------+-------+---------+
| name     | species | sex  | birth      | death      | petID | ownerID |
+----------+---------+------+------------+------------+-------+---------+
| Fluffy   | cat     | f    | 1993-02-04 | NULL       |     1 |       1 |
| Claws    | cat     | m    | 1994-03-17 | NULL       |     2 |       3 |
| Fang     | dog     | m    | 1990-08-27 | NULL       |     4 |       4 |
| Bowser   | dog     | m    | 1998-08-31 | 1995-07-29 |     5 |    NULL |
| Chirpy   | bird    | f    | 1998-09-11 | 2000-09-15 |     6 |       3 |
| Whistler | bird    |      | 1997-12-09 | NULL       |     7 |       3 |
+----------+---------+------+------------+------------+-------+---------+
6 rows in set (0.00 sec)

mysql>
```

e)

```
mysql>  SELECT * FROM pet WHERE (species = 'dog' AND sex = 'm')
    -> ;
+--------+---------+------+------------+------------+-------+---------+
| name   | species | sex  | birth      | death      | petID | ownerID |
+--------+---------+------+------------+------------+-------+---------+
| Fang   | dog     | m    | 1990-08-27 | NULL       |     4 |       4 |
| Bowser | dog     | m    | 1998-08-31 | 1995-07-29 |     5 |    NULL |
+--------+---------+------+------------+------------+-------+---------+
2 rows in set (0.00 sec)

mysql>
```

f)

```
mysql> SELECT name FROM pet WHERE (species = 'dog' AND sex = 'm');
+--------+
| name   |
+--------+
| Fang   |
| Bowser |
+--------+
2 rows in set (0.00 sec)

mysql>
```

g)

```
mysql> SELECT name, ownerID FROM pet WHERE (species = 'dog' AND sex = 'm');
+--------+---------+
| name   | ownerID |
+--------+---------+
| Fang   |       4 |
| Bowser |    NULL |
+--------+---------+
2 rows in set (0.00 sec)

mysql>
```