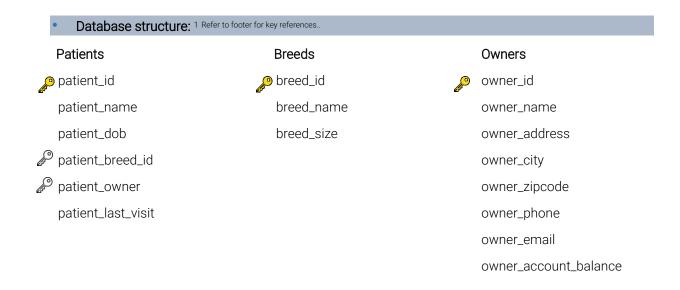
# Lab 06 Documentation MYSQL - PHP Anna Victoria Kerz - 300292572



#### SQL via command prompt:

To log in as root user, type the following command:

#### mysql -u root

If the log in is successful you will see a Welcome message and your console will show the your location for consequent commands as mysql>

```
C:\Users\victo>mysql -u root
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 56
Server version: 5.7.28 MySQL Community Server (GPL)

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

mysql>
```

#### Source file selection:

A sql which contains the initial commands is given, which will be sourced from the command prompt.

<sup>1</sup> Icons made by <u>Freepik</u> from <u>www.flaticon.com</u>
Primary Key
Foreign Key
Foreign Key in a table not represented in this Lab.

#### What does this file do?

- 1- The database is dropped if it exists previously.
- 2- The database is created.
- 3- The tables are created:
  - ProductSale
  - Products
  - Customers

To specify the file that contains the commands for database and table creation type the following command:

## mysql> source Lab06\_Ake9257.sql

If the command is successful, you will see how many rows were affected by it:

```
mysql> source D:/Lab06_AKe92572.sql;
Query OK, 3 rows affected (0.06 sec)

Query OK, 1 row affected (0.00 sec)

Database changed
Query OK, 0 rows affected (0.02 sec)

Query OK, 0 rows affected (0.01 sec)

Query OK, 0 rows affected (0.01 sec)
```

• To see the tables and make sure they were created, type in the following commands:

To switch to the newly created database:

#### use \$vet\_AKe92572

Then, request the tables to be shown:

## mysql> show tables;

If the creation was successful, it will show something like this:

## Database CRUD operations:

**Create:** In this example, this is covered by running the following commands. Each command will insert entries to the three tables to populate them with data.

To insert values to the Patients table, type the following command:

```
INSERT INTO Patients VALUES

(0, 'Max', '2015-04-12', 5, 1, '2020-04-30'),
(0, 'Buddy', '2014-06-14', 3, 1, '2020-05-01'),
(0, 'Bailey', '2017-03-02', 1, 2, '2019-07-14'),
(0, 'Bella', '2011-08-12', 4, 3, '2016-01-13'),
(0, 'Lucy', '2011-12-19', 4, 5, '2018-07-17');
```

The result should show:

```
mysql> INSERT INTO Patients VALUES
-> (0, 'Max', '2015-04-12', 5, 1, '2020-04-30'),
-> (0, 'Buddy', '2014-06-14', 3, 1, '2020-05-01'),
-> (0, 'Bailey', '2017-03-02', 1, 2, '2019-07-14'),
-> (0, 'Bella', '2011-08-12', 4, 3, '2016-01-13'),
-> (0, 'Lucy', '2011-12-19', 4, 5, '2018-07-17');

Query OK, 5 rows affected (0.02 sec)

Records: 5 Duplicates: 0 Warnings: 0
```

To insert values to the Breeds table, type the following command:

```
INSERT INTO Breeds VALUES

(0,'American Staffordshire Terrier', 'Large'),
(0,'Bearded Collie', 'Medium'),
(0,'Border Collie', 'Medium'),
(0,'English Bulldog', 'Medium'),
(0,'Cane Corso', 'Extra Large');
```

The result should show:

```
mysql> INSERT INTO Breeds VALUES
-> (0,'American Staffordshire Terrier', 'Large'),
-> (0,'Bearded Collie', 'Medium'),
-> (0,'Border Collie', 'Medium'),
-> (0,'English Bulldog', 'Medium'),
-> (0,'Cane Corso', 'Extra Large');
Query OK, 5 rows affected (0.00 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

To insert values to the Owners table, type the following command:

```
INSERT INTO Owners VALUES

(0, 'Amber G Kirkland','733 Bank St','Vancouver','V0E

3B0',6137394584,'bms42kzrn0i@classesmail.com',512.41),
(0, 'Janice J Rowe','1417 Blind Bay Road','Westwold','T7E

6B0',2503757019,'06ic5llt62bk@classesmail.com',0),
(0, 'Tommy S Zito','1546 Yonge Street','Elko','V0B 1J0', 2505297390,'imldoe7nqp@meantinc.com',0),
(0, 'Patricia W Blackburn','14 Bay Road','Crawford Bay','V0E

1B0',2502256123,'7v9xm13ij0a@fakemailgenerator.net',1971.12),
(0, 'Jean A Ball','1972 Burdett Avenue','Victoria','V8Z

2J8',2504798988,'yg85z51p6w@powerencry.com',0),
```

# (0, 'Rochelle L Pawlak', '669 Robson St', 'Vancouver', 'V6B 3K9', 6049742016, 'ecj 323b5a78@groupbuff.com', 0);

The result should show:

```
mysql> INSERT INTO Owners VALUES
-> (0, 'Amber G Kirkland','733 Bank St','Vancouver','V0E 3B0',6137394584,'bms42kzrn0i@classesmail.com',512.41),
-> (0, 'Janice J Rowe','1417 Blind Bay Road','Westwold','T7E 6B0',2503757019,'06ic5llt62bk@classesmail.com',0),
-> (0, 'Tommy S Zito','1546 Yonge Street','Elko','V0B 1J0', 2505297390,'imldoe7nqp@meantinc.com',0),
-> (0, 'Patricia W Blackburn','14 Bay Road','Crawford Bay','V0E 1B0',2502256123,'7v9xm13ij0a@fakemailgenerator.net',1971.12),
-> (0, 'Paen A Ball','1972 Burdett Avenue','Victoria','V8Z 238',2504798988,'yg85z51p6w@powerencry.com',0),
-> (0, 'Rochelle L Pawlak','669 Robson St','Vancouver','V6B 3K9',6049742016,'ecj323b5a78@groupbuff.com',0);
Query OK, 6 rows affected (0.00 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

**Update:** To update an entry in a strong entity (Patients), type the following command. This will set Bailey's last visit date to today's date.

```
UPDATE Patients
SET patient_last_visit = CURDATE()
WHERE patient_id = 1002;
```

The result should show that one entry was modified:

```
mysql> UPDATE Patients
-> SET patient_last_visit = CURDATE()
-> WHERE patient_id = 1002;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

Select: The following command will join all three tables by the key identifiers, which in this case are: patient\_id, breed\_id and owner\_id. It will display only 6 of the columns, which are defined at the beginning of the query.

To do this, enter the following command:

```
SELECT

p.patient_id, p.patient_name, p.patient_last_visit,
b.breed_name,
o.owner_phone, o.owner_account_balance
FROM Patients p
JOIN Breeds b ON p.patient_breed_id = b.breed_id
JOIN Owners o ON p.patient_owner = o.owner_id
ORDER BY p.patient_id;
```

It should display the following (note for Bailey, today's date is set as her last visit date)

patient_id	+   patient_name	patient_last_visit	breed_name	owner_phone	owner_account_balance			
1000   1001   1002   1003   1004	Max   Buddy   Bailey   Bella   Lucy	2020-04-30 2020-05-01 2020-06-28 2016-01-13 2018-07-17	Cane Corso Border Collie American Staffordshire Terrier English Bulldog English Bulldog	6137394584 6137394584 2503757019 2505297390 2504798988	512.41   512.41   0.00   0.00   0.00			
5 rows in set (0.01 sec)								

**Delete:** Lastly, to delete Lucy (1004) from the Patients table, enter the following command:

# DELETE FROM Patients WHERE patient\_id = 1004;

After a confirmation, if the select query is ran again on the Patients table, Lucy should no longer appear.

+	* from Patients	+			·
patient_id +	patient_name 	patient_dob +	patient_breed_id +	patient_owner +	patient_last_visit   
1000	Max	2015-04-12	5	1	2020-04-30
1001	Buddy	2014-06-14	3	1	2020-05-01
1002	Bailey	2017-03-02	1	2	2020-06-28
1003	Bella	2011-08-12	4	3	2016-01-13
+ 4 rows in set	(0.00 sec)	+	+	+	++