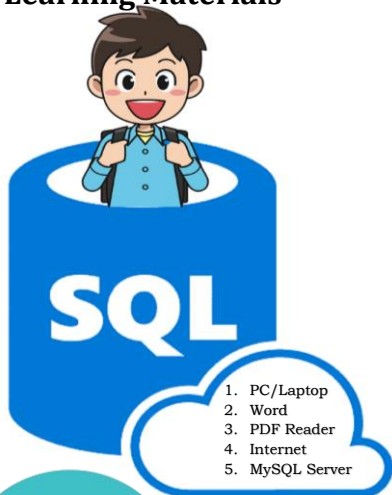


<b>Lesson Title</b>	Intro to SQL
<b>Learning Outcome(s)</b>	<ol style="list-style-type: none"> <li>1. Setting up and writing SQL commands using CLI (Command Line Interface)</li> <li>2. To create a database via a CLI, show list and be able to remove it.</li> <li>3. To create a table and its structure using basic SQL DDL commands</li> </ol>
<b>Time Frame</b>	90 minutes

## Learning Materials



**Read the lab manual thoroughly!** Begin by carefully reading the lab manual provided by your instructor. Pay close attention to the instructions, requirements, and any specific guidelines provided.

### POLICIES & PROCEDURES

1. Answer the assessment on the following pages.
2. Submit answers only by labeling each task name properly, in a **PDF** format with the following convention/specifications:
  - a. FILENAME: **DB\_WEEK#\_<LASTNAME>-<TITLE OF THE DOC>**
  - b. Provide the following in this document (if applicable):
    - i. Source Codes **(with your names in the comment)**
    - ii. Sample Input/Output **(with your names in the output)**
  - c. Font Size : 12
  - d. Line Spacing : 1.5
  - e. Margins : 1.5 (Left), 1 for all the rest.
3. The deadline for submission is **every next Monday of the week**—a deduction of 10 points per day after the due.
4. Please follow the above instructions and format specifications to avoid **non-completion, deduction, NO grade, and NFI** (Not following instructions). To wit,

Item# / Constraints	Deductions
Item 3	<b>10 points</b>
Item 3.a	<b>10 points</b>
Item 3.b.i	<b>10 points</b>
Item 3.b.ii	<b>10 points</b>
<b>1 day late (1 minute=1 day late)</b>	<b>10 points/day</b>
<b>Work similarity index/copied work</b>	<b>80 points</b>

**NOTE to Programmers:** For strict compliance, late submissions shall be penalized by 10 points (deduction) per day to instill the discipline of timely assessment. One minute is equivalent to a day late. Weekends and Holidays are included or counted. However, all submissions made during or after each Module Summative assessment shall NOT be accepted and considered 0 marks. Further, I will recognize warrant extensions of deadlines for those with severe medical or personal circumstances. Requests for such extensions must be made in writing with the necessary proof/evidence signed by your parents/guardian.

## [Laboratory No. 3.1 : Basic DML SQL 1]

1. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> CREATE table tbl_pet(pet_id int
(12), pet_name varchar(3), pet_age tinyint(3), pet_gender char (6));
Query OK, 0 rows affected (0.038 sec)
```

2. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES (1,
'Nymeria','female',5);
Query OK, 1 row affected, 2 warnings (0.116 sec)
```

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES (1,
'female',5,'Nymeria');
Query OK, 1 row affected, 2 warnings (0.234 sec)
```

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES (1,
'female',5,'Nymeri');
Query OK, 1 row affected, 1 warning (0.004 sec)
```

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender
1	Nym	0	5
1	fem	5	Nymeri
1	fem	5	Nymeri

3 rows in set (0.002 sec)

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES (2,
'Nymeria',5,'female');
Query OK, 1 row affected, 1 warning (0.005 sec)
```

3. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender
1	Nym	0	5
1	fem	5	Nymeri
1	fem	5	Nymeri
2	Nym	5	female

4 rows in set (0.001 sec)

### OBSERVATIONS 10 points

Executing the SELECT \* FROM tbl\_pet command retrieves and displays all records from the tbl\_pet table, affirming that the table is properly populated and accessible, ensuring its readiness for further operations.

4. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES(3,'Jj',15,'male'),(4,'Kelly',8,'female');
Query OK, 2 rows affected, 1 warning (0.003 sec)
Records: 2 Duplicates: 0 Warnings: 1
```

Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet(pet_id, pet_gender) VALUES(5,'male');
Query OK, 1 row affected (0.005 sec)
```

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender
1	Nym	0	5
1	fem	5	Nymeri
1	fem	5	Nymeri
2	Nym	5	female
3	Jj	15	male
4	Kel	8	female
5	NULL	NULL	male

7 rows in set (0.002 sec)

OBSERVATIONS 10 points

Using the INSERT INTO statement to add multiple rows simultaneously efficiently populates the table with the desired records. The reflected data confirms the seamless execution of the command, highlighting its practical use for batch data entry.

5. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES(1,'Amenadiel',5,'female'),(4,'Lucifer Morningstar',4,'male');
Query OK, 2 rows affected, 2 warnings (0.004 sec)
Records: 2 Duplicates: 0 Warnings: 2
```

Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender
1	Nym	0	5
1	fem	5	Nymeri
1	fem	5	Nymeri
2	Nym	5	female
3	Jj	15	male
4	Kel	8	female
5	NULL	NULL	male
1	Ame	5	female
4	Luc	4	male

9 rows in set (0.001 sec)

### OBSERVATIONS 10 points

Attempting to insert records with duplicate Pet\_ID values in the tbl\_pet table reveals a critical design flaw: the absence of a **PRIMARY KEY** constraint. This oversight allows duplicate entries, leading to data redundancy and undermining data integrity. A subsequent SELECT query confirms the existence of duplicate entries, emphasizing the importance of implementing proper constraints during database schema design.

#### 6. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> TRUNCATE TABLE tbl_pet;
Query OK, 0 rows affected (0.045 sec)
```

### OBSERVATIONS 10 points

Executing the TRUNCATE TABLE tbl\_pet command removes all records from the table while preserving its structure within the database. Unlike the DROP command, which entirely deletes the table and its data, TRUNCATE ensures the table remains intact but empty. Verifying the operation through a SHOW TABLES command highlights this distinction, reinforcing its utility in data management scenarios where table reuse is necessary.

### Formative Task

#### 1. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> CREATE TABLE tbl_owner(owner_id
  int(12), owner_name varchar(15), owner_address varchar(15), owner_gende
  r varchar(10), owner_contact int(8));
Query OK, 0 rows affected (0.027 sec)
```

#### 2. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_owner VALUES(1,
  'Cain', 'Davao City', 'female', 22344412);
Query OK, 1 row affected (0.009 sec)
```

#### 3. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_owner;
+-----+-----+-----+-----+-----+
| owner_id | owner_name | owner_address | owner_gender | owner_contact |
+-----+-----+-----+-----+-----+
|      1 | Cain      | Davao City   | female      | 22344412      |
+-----+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

#### 4. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> ALTER TABLE tbl_pet ADD(pet_col
  or varchar(5), pet_type varchar(10), pet_breed varchar(10), pet_price in
  t(12));
Query OK, 0 rows affected (0.103 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

#### 5. Output 10 points

```
INSERT INTO tbl_pet VALUES(1,'Anna','female','White',12,'Dog','Hu...' at line 1
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES(1,'A
nna','female','White',12,'Dog','Husky',23000.45);
Query OK, 1 row affected, 2 warnings (0.008 sec)
```

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender	pet_color	pet_type	pet_breed	pet_price
1	Ann	0	White	12	Dog	Husky	23000

1 row in set (0.002 sec)

6. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES(2,'Will',11,'male','blac
k','cat','pakist',4000),(3,'Nel',9,'female','white','dog','husky',3000);
Query OK, 2 rows affected, 1 warning (0.005 sec)
Records: 2 Duplicates: 0 Warnings: 1
```

7. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet(pet_id, pet_name, pet_gender, pe
t_age) VALUES(1001,'Nymeria','female',5),(1002,'Luh kay','male',4),(3,'Ismael','female',16),
(4,'Anne ann','male',12);
Query OK, 4 rows affected, 4 warnings (0.004 sec)
Records: 4 Duplicates: 0 Warnings: 4
```

8. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT pet_name, pet_gender, pet_type, pet_price fr
om tbl_pet;
```

pet_name	pet_gender	pet_type	pet_price
Ann	White	Dog	23000
Wil	male	cat	4000
Nel	female	dog	3000
Nym	female	NULL	NULL
Luh	male	NULL	NULL
Ism	female	NULL	NULL
Ann	male	NULL	NULL

7 rows in set (0.001 sec)

9. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SHOW FIELDS FROM tbl_pet;
```

Field	Type	Null	Key	Default	Extra
pet_id	int(12)	YES		NULL	
pet_name	varchar(3)	YES		NULL	
pet_age	tinyint(3)	YES		NULL	
pet_gender	char(6)	YES		NULL	
pet_color	varchar(5)	YES		NULL	
pet_type	varchar(10)	YES		NULL	
pet_breed	varchar(10)	YES		NULL	
pet_price	int(12)	YES		NULL	

8 rows in set (0.060 sec)

10. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender	pet_color	pet_type	pet_breed	pet_price
1	Ann	0	White	12	Dog	Husky	23000
2	Wil	11	male	black	cat	pakist	4000
3	Nel	9	female	white	dog	husky	3000
1001	Nym	5	female	NULL	NULL	NULL	NULL
1002	Luh	4	male	NULL	NULL	NULL	NULL
3	Ism	16	female	NULL	NULL	NULL	NULL
4	Ann	12	male	NULL	NULL	NULL	NULL

7 rows in set (0.001 sec)

### 11. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_owner VALUES (2,'Abi','Cebu City','male',34243),(3,'Dan','Cebu City','male',243254);
Query OK, 2 rows affected (0.004 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

### 12. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_owner;
```

owner_id	owner_name	owner_address	owner_gender	owner_contact
1	Cain	Davao City	female	22344412
2	Abi	Cebu City	male	34243
3	Dan	Cebu City	male	243254

3 rows in set (0.002 sec)

### 13. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SHOW FIELDS FROM tbl_owner;
```

Field	Type	Null	Key	Default	Extra
owner_id	int(12)	YES		NULL	
owner_name	varchar(15)	YES		NULL	
owner_address	varchar(15)	YES		NULL	
owner_gender	varchar(10)	YES		NULL	
owner_contact	int(8)	YES		NULL	

5 rows in set (0.042 sec)

```
MariaDB [db_monterola_activitybasicdm1]> SHOW FIELDS FROM tbl_pet;
```

Field	Type	Null	Key	Default	Extra
pet_id	int(12)	YES		NULL	
pet_name	varchar(3)	YES		NULL	
pet_age	tinyint(3)	YES		NULL	
pet_gender	char(6)	YES		NULL	
pet_color	varchar(5)	YES		NULL	
pet_type	varchar(10)	YES		NULL	
pet_breed	varchar(10)	YES		NULL	
pet_price	int(12)	YES		NULL	

8 rows in set (0.033 sec)

## [Laboratory No. 3.2: Basic DML SQL 2]

### Objective 1

#### 1. Output 10 points



```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender	pet_color	pet_type	pet_breed	pet_price
1	Ann	0	White	12	Dog	Husky	23000
2	Wil	11	male	black	cat	pakist	4000
3	Nel	9	female	white	dog	husky	3000
1001	Nym	5	female	NULL	NULL	NULL	NULL
1002	Luh	4	male	NULL	NULL	NULL	NULL
3	Ism	16	female	NULL	NULL	NULL	NULL
4	Ann	12	male	NULL	NULL	NULL	NULL

```
7 rows in set (0.004 sec)
```

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_owner;
```

owner_id	owner_name	owner_address	owner_gender	owner_contact
1	Cain	Davao City	female	22344412
2	Abi	Cebu City	male	34243
3	Dan	Cebu City	male	243254

```
3 rows in set (0.001 sec)
```

## 2. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> CREATE TABLE tbl_pet_new SELECT *from tbl_pet;
Query OK, 7 rows affected (0.034 sec)
Records: 7 Duplicates: 0 Warnings: 0

MariaDB [db_monterola_activitybasicdm1]> CREATE TABLE tbl_pet_new_DROP SELECT *from tbl_pet;
Query OK, 7 rows affected (0.019 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

## 3. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> CREATE TABLE tbl_pet_new_truncate SELECT *from tbl_pet;
Query OK, 7 rows affected (0.056 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

4. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SHOW FIELDS from tbl_pet_new_drop;
```

Field	Type	Null	Key	Default	Extra
pet_id	int(12)	YES		NULL	
pet_name	varchar(3)	YES		NULL	
pet_age	tinyint(3)	YES		NULL	
pet_gender	char(6)	YES		NULL	
pet_color	varchar(5)	YES		NULL	
pet_type	varchar(10)	YES		NULL	
pet_breed	varchar(10)	YES		NULL	
pet_price	int(12)	YES		NULL	

8 rows in set (0.048 sec)

```
MariaDB [db_monterola_activitybasicdm1]> SHOW FIELDS from tbl_pet_new_truncate;
```

Field	Type	Null	Key	Default	Extra
pet_id	int(12)	YES		NULL	
pet_name	varchar(3)	YES		NULL	
pet_age	tinyint(3)	YES		NULL	
pet_gender	char(6)	YES		NULL	
pet_color	varchar(5)	YES		NULL	
pet_type	varchar(10)	YES		NULL	
pet_breed	varchar(10)	YES		NULL	
pet_price	int(12)	YES		NULL	

8 rows in set (0.024 sec)

```
MariaDB [db_monterola_activitybasicdm1]> SHOW FIELDS from tbl_pet_new;
```

Field	Type	Null	Key	Default	Extra
pet_id	int(12)	YES		NULL	
pet_name	varchar(3)	YES		NULL	
pet_age	tinyint(3)	YES		NULL	
pet_gender	char(6)	YES		NULL	
pet_color	varchar(5)	YES		NULL	
pet_type	varchar(10)	YES		NULL	
pet_breed	varchar(10)	YES		NULL	
pet_price	int(12)	YES		NULL	

8 rows in set (0.203 sec)

5. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SHOW TABLES;
```

Tables_in_db_monterola_activitybasicdm1
tbl_owner
tbl_pet
tbl_pet_new
tbl_pet_new_drop
tbl_pet_new_truncate

5 rows in set (0.106 sec)

6. Output 10 points



```
MariaDB [db_monterola_activitybasicdm1]> DROP TABLE tbl_pet_new_DROP;
Query OK, 0 rows affected (0.180 sec)

MariaDB [db_monterola_activitybasicdm1]> SHOW TABLES;
+-----+
| Tables_in_db_monterola_activitybasicdm1 |
+-----+
| tbl_owner                                |
| tbl_pet                                  |
| tbl_pet_new                              |
| tbl_pet_new_truncate                     |
+-----+
4 rows in set (0.002 sec)
```

OBSERVATIONS Output 10 points

The DROP TABLE tbl\_pet\_new\_drop command permanently deletes the specified table from the database. A follow-up SHOW TABLES query confirms its complete removal, demonstrating the irreversible nature of the DROP command and its significance in managing obsolete database objects.

7. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> TRUNCATE TABLE tbl_pet_new_truncate;
Query OK, 0 rows affected (0.030 sec)
```

8. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SHOW TABLES;
+-----+
| Tables_in_db_monterola_activitybasicdm1 |
+-----+
| tbl_owner                                |
| tbl_pet                                  |
| tbl_pet_new                              |
| tbl_pet_new_truncate                     |
+-----+
4 rows in set (0.003 sec)
```

OBSERVATIONS 10 points

The list of tables displayed excludes the dropped table, confirming that it has been successfully deleted and ensuring that the current state of the database reflects the removal.

9. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet_new_truncate;
Empty set (0.001 sec)
```

OBSERVATIONS 10 points

Reviewing the effects of the TRUNCATE command, all records in the table are deleted, but its structure is preserved within the database schema. A subsequent SELECT query confirms that while the table is now empty, it remains available for future use, underscoring its utility in situations requiring a fresh start without redefining the schema.

10. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> CREATE TABLE tbl_pet_backup SELECT *from tbl_pet;
Query OK, 7 rows affected (0.022 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

## Objective 2

1. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES(5,'Lan',3,'female','pink
    '> ','cat','pinkcat',9000),(6,'Len',4,'male','white','dog','husk',8000),(7,'Lon',2,'male
    ','brown','cat','garf',100000),(8,'Yen',8,'female','black','dog','dogi',98000);
Query OK, 4 rows affected (0.006 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

2. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> UPDATE tbl_pet set pet_name='Lucia';
Query OK, 11 rows affected, 11 warnings (0.005 sec)
Rows matched: 11 Changed: 11 Warnings: 11

MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender	pet_color	pet_type	pet_breed	pet_price
1	Luc	0	White	12	Dog	Husky	23000
2	Luc	11	male	black	cat	pakist	4000
3	Luc	9	female	white	dog	husky	3000
1001	Luc	5	female	NULL	NULL	NULL	NULL
1002	Luc	4	male	NULL	NULL	NULL	NULL
3	Luc	16	female	NULL	NULL	NULL	NULL
4	Luc	12	male	NULL	NULL	NULL	NULL
5	Luc	3	female	pink			
	cat	pinkcat	9000				
6	Luc	4	male	white	dog	husk	8000
7	Luc	2	male	brown	cat	garf	100000
8	Luc	8	female	black	dog	dogi	98000

```
11 rows in set (0.002 sec)
```

#### OBSERVATIONS 10 points

Executing an UPDATE...SET statement without including a WHERE clause inadvertently updates all rows in the table. For example, running UPDATE tbl\_pet SET pet\_name = 'Lucia' will set the pet\_name of every record to "Lucia." This highlights the critical importance of incorporating a specific WHERE condition to limit changes to only the intended rows. Thoughtful query design is essential to avoid sweeping errors and maintain data accuracy.

#### Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> UPDATE tbl_pet set pet_name='Digong' WHERE pet_gender='male';
Query OK, 5 rows affected, 5 warnings (0.007 sec)
Rows matched: 5 Changed: 5 Warnings: 5

MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender	pet_color	pet_type	pet_breed	pet_price
1	Luc	0	White	12	Dog	Husky	23000
2	Dig	11	male	black	cat	pakist	4000
3	Luc	9	female	white	dog	husky	3000
1001	Luc	5	female	NULL	NULL	NULL	NULL
1002	Dig	4	male	NULL	NULL	NULL	NULL
3	Luc	16	female	NULL	NULL	NULL	NULL
4	Dig	12	male	NULL	NULL	NULL	NULL
5	Luc	3	female	pink			
	cat	pinkcat	9000				
6	Dig	4	male	white	dog	husk	8000
7	Dig	2	male	brown	cat	garf	100000
8	Luc	8	female	black	dog	dogi	98000

```
11 rows in set (0.002 sec)
```

#### OBSERVATIONS Output 10 points

After running the update, a SELECT \* FROM tbl\_pet query confirms that all rows now share the same pet\_name, illustrating the unintended consequences of omitting a filter. This scenario underscores the need for careful query formulation to safeguard data integrity and prevent widespread inaccuracies.

#### 3. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> DELETE FROM tbl_pet WHERE pet_name='Luc';
Query OK, 6 rows affected (0.096 sec)
```

#### Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
```

pet_id	pet_name	pet_age	pet_gender	pet_color	pet_type	pet_breed	pet_price
2	Dig	11	male	black	cat	pakist	4000
1002	Dig	4	male	NULL	NULL	NULL	NULL
4	Dig	12	male	NULL	NULL	NULL	NULL
6	Dig	4	male	white	dog	husk	8000
7	Dig	2	male	brown	cat	garf	100000

```
5 rows in set (0.002 sec)
```

OBSERVATIONS 10 points

Executing a DELETE FROM statement with a precise condition, such as removing rows where the pet\_name is "Lucia," ensures that only the targeted records are deleted while preserving the rest of the table's data. The inclusion of a WHERE clause is essential to avoid unintentional data loss, as its absence would result in the complete deletion of all records, similar to the effect of the TRUNCATE command.

#### 4. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> DELETE from tbl_pet;
Query OK, 5 rows affected (0.005 sec)
```

OBSERVATIONS 10 points

After executing the deletion, a follow-up query confirms that the specified records have been successfully removed, verifying the operation's precision and reinforcing the importance of using filters to control the scope of changes.

#### 5. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet SELECT *from tbl_pet_new;
Query OK, 7 rows affected (0.004 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

#### 6. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet VALUES(1,'Gid',12,'female','white','cat','cathy',9000),(1,'Ged',12,'male','gold','dog','retri',78000),(1,'Gad',10,'female','brown','donkey','askal',12000);
Query OK, 3 rows affected (0.004 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

#### 7. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> UPDATE tbl_pet SET pet_name='Luh Bee' WHERE pet_id=4;
Query OK, 1 row affected, 1 warning (0.005 sec)
Rows matched: 1 Changed: 1 Warnings: 1
```

#### 8. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> UPDATE tbl_pet SET pet_id=10 WHERE pet_id=1;
Query OK, 4 rows affected (0.049 sec)
Rows matched: 4 Changed: 4 Warnings: 0
```

#### 9. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> DELETE FROM tbl_pet WHERE pet_id=10;
Query OK, 4 rows affected (0.097 sec)
```

#### 10. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet(pet_id,pet_name,pet_gender,pet_age) SELECT 2,'Wil','female',2 FROM tbl_pet WHERE pet_id=1002;
Query OK, 1 row affected (0.007 sec)
Records: 1 Duplicates: 0 Warnings: 0
```

#### 11. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_pet(pet_color,pet_type,pet_breed,pet_price) SELECT 'brown','cat','cathy',9000 FROM tbl_pet WHERE pet_id=4;
Query OK, 1 row affected (0.005 sec)
Records: 1 Duplicates: 0 Warnings: 0
```

#### 12. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> INSERT INTO tbl_owner(owner_gender) SELECT 'male' FROM tbl_owner WHERE owner_id=3;
Query OK, 1 row affected (0.004 sec)
Records: 1 Duplicates: 0 Warnings: 0
```

### 13. Output 10 points

```
MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_owner;
+-----+-----+-----+-----+-----+
| owner_id | owner_name | owner_address | owner_gender | owner_contact |
+-----+-----+-----+-----+-----+
| 1 | Cain | Davao City | female | 22344412 |
| 2 | Abi | Cebu City | male | 34243 |
| 3 | Dan | Cebu City | male | 243254 |
+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)

MariaDB [db_monterola_activitybasicdm1]> SELECT *from tbl_pet;
+-----+-----+-----+-----+-----+-----+-----+-----+
| pet_id | pet_name | pet_age | pet_gender | pet_color | pet_type | pet_breed | pet_price |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1001 | Nym | 5 | female | NULL | NULL | NULL | NULL |
| 1002 | Luh | 4 | male | NULL | NULL | NULL | NULL |
| 4 | Luh | 12 | male | brown | cat | cathy | 9000 |
+-----+-----+-----+-----+-----+-----+-----+-----+
3 rows in set (0.001 sec)
```

### [Laboratory No. 3.3: Simple Database Backup]

Task	SQL and OUTPUT
a. Create a new database name: surname_backup	<pre>C:\xampp\mysql\bin&gt;mysql -u root -p -e "CREATE DATABASE monterola_backup" Enter password: C:\xampp\mysql\bin&gt;</pre>
b. Export .sql file: surname_dbBackup.sql	<pre>C:\xampp\mysql\bin&gt;mysqldump -u root -p monterola_backup &gt; monterola_dbBackup.sql Enter password:</pre>
c. Import the .sql file to your new database name created in task A.	<pre>C:\xampp\mysql\bin&gt;mysql -u root -p db_monterola_activitybasicdm1 &lt; monterola_dbBackup.sql</pre>
d. Show all your databases	<pre>MariaDB [(none)]&gt; SHOW DATABASES; +-----+   Database   +-----+   db_monterola_activitybasicdm1     information_schema     monterola_backup     mysql     performance_schema     phpmyadmin     test   +-----+ 7 rows in set (0.002 sec)</pre>
e. Use the surname_backup database and show all tables	<pre>MariaDB [(none)]&gt; USE monterola_backup; Database changed MariaDB [monterola_backup]&gt; SHOW TABLES; Empty set (0.002 sec)</pre>

### Insights 20 points

This task delves into mastering essential database management techniques using MySQL, with a particular focus on exporting and importing database files. The process begins by guiding users through creating a comprehensive backup of an existing database via the mysqldump command, generating a .sql file that encapsulates both the database structure and its data. Next, it explores the seamless restoration of this backup into a newly created database, effectively replicating the original. To ensure accuracy and reliability, the task highlights verifying the success of these operations by listing available databases and inspecting the contents of tables in the restored database. Practical exercises, such as creating a database with a specified naming format, exporting its data, and re-importing the file, are integral to developing hands-on expertise. These foundational skills are indispensable for maintaining database integrity and reliability, especially in critical scenarios like data migration and disaster recovery.