

Activity – Lesson 1

1. Create a database named **school_db**.

```
MariaDB [(none)]> CREATE DATABASE school_db;  
Query OK, 1 row affected (0.011 sec)
```

2. Show all databases.

```
MariaDB [(none)]> SHOW DATABASES;  
+-----+  
| Database |  
+-----+  
| information_schema |  
| mysql |  
| performance_schema |  
| phpmyadmin |  
| school_db |  
| test |  
+-----+  
6 rows in set (0.019 sec)
```

3. Use the database you have created.

```
MariaDB [(none)]> USE school_db;  
Database changed
```

4. Create a table named **students** with the following columns:

Column name	Data Type	Notes
id	INT	Auto increment, primary key
name	VARCHAR(100)	
age	INT	
email	VARCHAR(100)	
course	VARCHAR(100)	

```
MariaDB [school_db]> CREATE TABLE students (  
-> id INT AUTO_INCREMENT PRIMARY KEY,  
-> name VARCHAR(100),  
-> age INT,  
-> email VARCHAR(100),  
-> course VARCHAR(100)  
-> );  
Query OK, 0 rows affected (0.063 sec)
```

5. Show table structure

```
MariaDB [school_db]> DESCRIBE students;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| id | int(11) | NO | PRI | NULL | auto_increment |  
| name | varchar(100) | YES | | NULL | |  
| age | int(11) | YES | | NULL | |  
| email | varchar(100) | YES | | NULL | |  
| course | varchar(100) | YES | | NULL | |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.125 sec)
```

6. Insert 3 students into the table.
- a. Alice Johnson / 20 / alice@example.com / BSCS
 - b. Bob Smith / 22 / bob@example.com / BSIT
 - c. Clara Davis / 21 / clara@example.com / BSEMC

```
MariaDB [school_db]> INSERT INTO students (name, age, email, course)
-> VALUES
-> ('Alice Johnson', 20, 'alice@example.com', 'BSCS'),
-> ('Bob Smith', 22, 'bob@example.com', 'BSIT'),
-> ('Clara Davis', 21, 'clara@example.com', 'BSEMC');
Query OK, 3 rows affected (0.013 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

7. Display all records in the **students** table.

```
MariaDB [school_db]> SELECT * FROM students;
```

id	name	age	email	course
1	Alice Johnson	20	alice@example.com	BSCS
2	Bob Smith	22	bob@example.com	BSIT
3	Clara Davis	21	clara@example.com	BSEMC

```
3 rows in set (0.003 sec)
```

8. Display only names and emails.

```
MariaDB [school_db]> SELECT name, email FROM students;
```

name	email
Alice Johnson	alice@example.com
Bob Smith	bob@example.com
Clara Davis	clara@example.com

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

9. Display students older than 20.

```
MariaDB [school_db]> SELECT * FROM students WHERE age > 20;
```

id	name	age	email	course
2	Bob Smith	22	bob@example.com	BSIT
3	Clara Davis	21	clara@example.com	BSEMC

```
2 rows in set (0.021 sec)
```

10. Change Clara's course to Data Science.

```
MariaDB [school_db]> UPDATE students
    -> SET course = 'Data Science'
    -> WHERE name = 'Clara Davis';
Query OK, 1 row affected (0.012 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [school_db]> SELECT * FROM students;
```

id	name	age	email	course
1	Alice Johnson	20	alice@example.com	BSCS
2	Bob Smith	22	bob@example.com	BSIT
3	Clara Davis	21	clara@example.com	Data Science

3 rows in set (0.001 sec)

11. Delete the student named Bob Smith.

```
MariaDB [school_db]> DELETE FROM students
    -> WHERE name = 'Bob Smith';
Query OK, 1 row affected (0.009 sec)
```

```
MariaDB [school_db]> SELECT * FROM students;
```

id	name	age	email	course
1	Alice Johnson	20	alice@example.com	BSCS
3	Clara Davis	21	clara@example.com	Data Science

2 rows in set (0.001 sec)