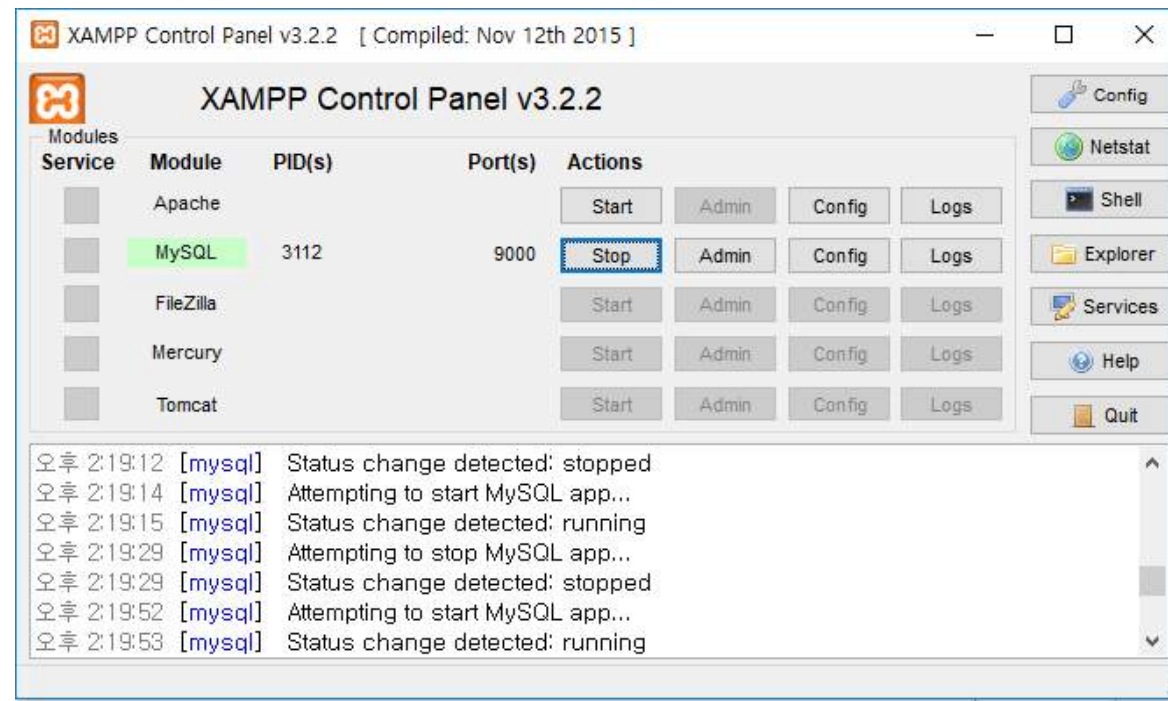


MYSQL Basics Demo

Make sure the server is running..



Connecting to MySQL Server

```
C:\xampp\mysql\bin>mysql -uroot -p -P9000
```

```
Enter password:
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
```

```
Your MariaDB connection id is 8
```

```
Server version: 10.1.31-MariaDB mariadb.org binary distributio
```

```
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and o  
hers.
```

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

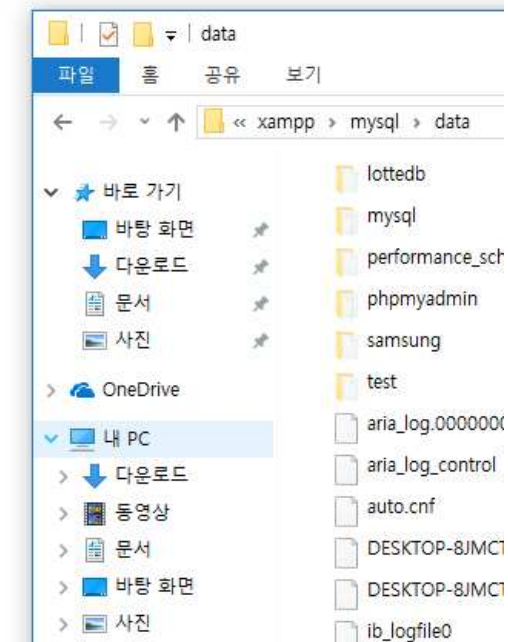
```
MariaDB [(none)]>
```

CREATING a database

```
MariaDB [(none)]> CREATE DATABASE samsung;  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [(none)]> SHOW DATABASES;
```

Database
information_schema
lottedb
mysql
performance_schema
phpmyadmin
samsung
test



CREATING A TABLE

customers	
id	int(10)
lastname	varchar(30)
firstname	varchar(30)
phone	varchar(15)
birthday	date
credit_limit	int(10)

```
MariaDB [lottedb]> CREATE TABLE customers
-> ( id int(5), lastname VARCHAR(30),
->   firstname VARCHAR(30), phonenumber VARCHAR(15),
->   credit_limit int(10) );
```

Query OK, 0 rows affected (0.02 sec)

```
MariaDB [lottedb]> DESCRIBE customers;
```

Field	Type	Null	Key	Default	Extra
id	int(5)	YES		NULL	
lastname	varchar(30)	YES		NULL	
firstname	varchar(30)	YES		NULL	
phonenumber	varchar(15)	YES		NULL	
credit_limit	int(10)	YES		NULL	

ALTER TABLE

customers	
id	int(10)
lastname	varchar(30)
firstname	varchar(30)
phone	varchar(15)
birthday	date
credit_limit	int(10)

C:\Windows\system32\cmd.exe - mysql -uroot -p -P9000

```
MariaDB [lotteddb]> ALTER TABLE customers
    -> ADD birthday DATE
    -> AFTER phonenumber;
Query OK, 0 rows affected (0.04 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
MariaDB [lotteddb]> DESCRIBE customers;
```

Field	Type	Null	Key	Default	Ex
id	int(5)	YES		NULL	
lastname	varchar(30)	YES		NULL	
firstname	varchar(30)	YES		NULL	
onenumber	varchar(15)	YES		NULL	
birthday	date	YES		NULL	
credit_limit	int(10)	YES		NULL	

CREATING another table

employees	
id	INT (5)
lastname	VARCHAR(10)
firstname	VARCHAR(10)
salary	INT (5)
birthday	DATE

```
MariaDB [lottedb]> CREATE TABLE employees
  -> (id int(5), lastname VARCHAR(30), firstname VARCHAR(30),
  -> salary INT(10), birthday DATE);
Query OK, 0 rows affected (0.02 sec)
```

```
MariaDB [lottedb]> DESCRIBE employees;
```

Field	Type	Null	Key	Default	Extra
id	int(5)	YES		NULL	
lastname	varchar(30)	YES		NULL	
firstname	varchar(30)	YES		NULL	
salary	int(10)	YES		NULL	
birthday	date	YES		NULL	

SHOW TABLES

```
Mar iaDB [lottedb]> SHOW TABLES;
```

Tables_in_lottedb
customers
employees

```
2 rows in set (0.00 sec)
```

```
Mar iaDB [lottedb]>
```


DROP TABLE

```
MariaDB [lottedb]> DROP TABLE customers;  
Query OK, 0 rows affected (0.01 sec)
```

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

Tables_in_lottedb
employees

1 row in set (0.00 sec)

INSERTING A RECORD

id	lastname	firstname	salary	birthday
1	KIM	JASON	1000	1999.10.25
2	KIM	YUNA	2000	2001.5.15
3	KIM	JOHN	1500	1995.4.04

id	int(5)	YES	NULL
lastname	varchar(30)	YES	NULL
firstname	varchar(30)	YES	NULL
salary	int(10)	YES	NULL
birthday	date	YES	NULL

5 rows in set (0.01 sec)

```
MariaDB [lottedb]> INSERT INTO employees
-> (id, lastname, firstname, salary, birthday)
-> VALUES
-> ('1', 'Kim', 'Jason', '1000', '1999-10-25')
-> ;
Query OK, 1 row affected (0.00 sec)
```

INSERTING MULTIPLE RECORDS

```
MariaDB [lotteddb]> INSERT INTO employees  
  -> (id, lastname, firstname, salary, birthday)  
  -> VALUES  
  -> ('1', 'Kim', 'Yuna', '2000', '2001-5-55'),  
  -> ('3', 'Kim', 'John', '1500', '1995-4-04');  
Query OK, 2 rows affected, 1 warning (0.00 sec)  
Records: 2  Duplicates: 0  Warnings: 1
```

id	lastname	firstname	salary	birthday
1	KIM	JASON	1000	1999.10.25
2	KIM	YUNA	2000	2001.5.15
3	KIM	JOHN	1500	1995.4.04

```
MariaDB [lotteddb]> SELECT * FROM employees;
```

id	lastname	firstname	salary	birthday
1	Kim	Jason	1000	1999-10-25
1	Kim	Yuna	2000	0000-00-00
3	Kim	John	1500	1995-04-04

```
3 rows in set (0.00 sec)
```

UPDATE RECORD(s) – without condition

```
MariaDB [lotteddb]> UPDATE employees  
    -> SET id = 2;
```

```
Query OK, 3 rows affected (0.00 sec)
```

```
Rows matched: 3  Changed: 3  Warnings: 0
```

```
MariaDB [lotteddb]> SELECT * FROM employees;
```

id	lastname	firstname	salary	birthday
2	Kim	Jason	1000	1999-10-25
2	Kim	Yuna	2000	0000-00-00
2	Kim	John	1500	1995-04-04

```
3 rows in set (0.00 sec)
```

UPDATE RECORD(s) – with condition WHERE clause

```
MariaDB [lottedb]> UPDATE employees  
-> SET id = '1'  
-> WHERE firstname = 'Jason';  
Query OK, 1 row affected (0.00 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
MariaDB [lottedb]> SELECT * FROM employees;
```

id	lastname	firstname	salary	birthday
1	Kim	Jason	1000	1999-10-25
2	Kim	Yuna	2000	0000-00-00
2	Kim	John	1500	1995-04-04

```
3 rows in set (0.00 sec)
```

DELETING A RECORD without condition

- ALL RECORDS are DELETED

```
MariaDB [lottedb]>
```

```
MariaDB [lottedb]>
```

```
MariaDB [lottedb]> DELETE FROM employees;
```

```
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [lottedb]> SELECT * FROM employees;
```

```
Empty set (0.00 sec)
```

```
MariaDB [lottedb]>
```


TABLE STRUCTURE

```
MariaDB [lotteddb]> DESCRIBE employees;
```

Field	Type	Null	Key	Default	Extra
id	int(5)	YES		NULL	
lastname	varchar(30)	YES		NULL	

ADDING A KEY when CREATING A TABLE

```
MariaDB [lottedb]> CREATE TABLE employees  
-> (ID int(5) PRIMARY KEY AUTO_INCREMENT,  
-> lastname VARCHAR(30),  
-> firstname VARCHAR(30),  
-> salary int(10),  
-> birthday DATE);
```

Query OK, 0 rows affected (0.02 sec)

```
MariaDB [lottedb]> DESCRIBE employees;
```

Field	Type	Null	Key	Default	Extra
ID	int(5)	NO	PRI	NULL	auto_increment
lastname	varchar(30)	YES		NULL	
firstname	varchar(30)	YES		NULL	
salary	int(10)	YES		NULL	
birthday	date	YES		NULL	

ADDING A KEY in EXISTING TABLE

```
MariaDB [lottedb]> ALTER TABLE employees  
    -> MODIFY id INT(5) PRIMARY KEY AUTO_INCREMENT;  
Query OK, 0 rows affected (0.04 sec)  
Records: 0  Duplicates: 0  Warnings: 0
```

```
MariaDB [lottedb]> DESCRIBE employees;
```

Field	Type	Null	Key	Default	Extra
id	int(5)	NO	PRI	NULL	auto_increment
lastname	varchar(30)	YES		NULL	
firstname	varchar(30)	YES		NULL	
salary	int(10)	YES		NULL	
birthday	date	YES		NULL	

ADDING RECORDS with AUTO_INCREMENT

```
MariaDB [lottedb]> INSERT INTO employees  
-> (salary, lastname, firstname, birthday)  
-> VALUES  
-> ('1000', 'Kim', 'Jason', '1999-10-25');  
Query OK, 1 row affected (0.00 sec)
```

```
MariaDB [lottedb]> SELECT * FROM employees;
```

id	lastname	firstname	salary	birthday
1	Kim	Jason	1000	1999-10-25

```
1 row in set (0.00 sec)
```

SQL EXERCISE #1

id	lastname	firstname	sex	salary	birthday
1	Kim	Jason	M	1000	1999.10.25
2	Park	Yuna	F	2000	2001.5.15
3	Lee	John	M	1500	1995.4.04
4	Park	Mina	F	2500	1999.10.25
5	Lee	Yuna	F	3500	1994.5.25
6	Kim	Mina	F	2000	2000.12.15
Create this table in Kia Database . Name of the table is ilgwon					
MAKE sure that id is AUTO_INCREMENT					