EXPERIMENT 01: STATEMENTS WITH OUTPUTS.....

```
C:\>cd xampp/mysql/bin
C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor. Commands end with; or \g.
Your MariaDB connection id is 8
Server version: 10.4.28-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> CREATE DATABASE 21co56;
Query OK, 1 row affected (0.008 sec)
MariaDB [(none)]> SHOW DATABASES;
Database
| 21co56
| information_schema
| mysql
| performance_schema
| phpmyadmin
1 test
6 rows in set (0.002 sec)
MariaDB [(none)]> USE 21co56
Database changed
```

```
MariaDB [(none)]> USE 21co56;
Database changed
MariaDB [21co56]>
```

QUERY 01: Write a SQL statement to create a simple table country including columns country_id, country_name and region_id.

QUERY 02: Display the structure of country table.

```
MariaDB [21co56] > DESCRIBE country;
 Field
                Type
                              | Null | Kev | Default |
                                                       Extra
  country_id
                 int(5)
                                YES
                                             NULL
  country_name |
                 varchar(20)
                                YES
                                             NULL
  region_id
                 int(5)
                               YES
                                             NULL
 rows in set (0.026 sec)
```

QUERY 03: Write a SQL statement to create a duplicate copy of countries table including structure and data by name dup country.

```
MariaDB [21co56]> CREATE TABLE dup_country AS
-> SELECT * FROM country;
Query OK, 0 rows affected (0.025 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

QUERY 04: Display the structure of dup_country table.

```
MariaDB [21co56]> DESCRIBE dup_country;
 Field
                Type
                              | Null | Key | Default | Extra
  country_id
                 int(5)
                                YES
                                             NULL
  country_name
                 varchar(20)
                                YES
                                             NULL
  region_id
                 int(5)
                               YES
                                             NULL
  rows in set (0.026 sec)
```

QUERY 05: Write a SQL statement to create a table named jobs including columns job_id(primary key), job_title (Not Null and unique), min_salary, max_salary and check whether the max_salary amount exceeding the upper limit 25000.

QUERY 06: Display the structure of jobs table.

```
MariaDB [21co56]> DESCRIBE jobs;
 Field
             | Type
                            | Null | Key | Default | Extra
  job_id
               int(5)
                              NO
                                     PRI
                                           NULL
 job_title
               varchar(20)
                              NO
                                     UNI
                                           NULL
 min_salary | float
                              YES
                                           NULL
 max_salary | float
                              YES
                                           NULL
4 rows in set (0.027 sec)
```

QUERY 07: Write a SQL statement to rename the table country to country_new.

```
MariaDB [21co56]> RENAME TABLE country TO country_new;
Query OK, 0 rows affected (0.014 sec)
```

QUERY 08: Display the structure of country_new table.

```
MariaDB [21co56]> DESCRIBE country_new;
 Field
                 Type
                              | Null | Kev | Default | Extra
  country_id
                 int(5)
                                YES
                                             NULL
  country_name |
                 varchar(20)
                                YES
                                             NULL
  region_id
                 int(5)
                               YES
                                             NULL
3 rows in set (0.028 sec)
```

QUERY 09: Write a SQL statement to add a column area to the table country_new.

```
MariaDB [21co56]> ALTER TABLE country_new ADD area varchar(20);
Query OK, 0 rows affected (0.032 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

QUERY 10: Display the structure of country new table.

```
MariaDB [21co56]> ALTER TABLE country_new ADD PRIMARY KEY (country_id);
Query OK, 0 rows affected (0.038 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

QUERY 11: Perform the following on country new table.

a. Add primary key constraint to country_id field.

```
MariaDB [21co56]> ALTER TABLE country_new ADD PRIMARY KEY (country_id);
Query OK, 0 rows affected (0.038 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

b. Display the structure of country new table.

```
MariaDB [21co56]> DESCRIBE country_new;
                             | Null | Key | Default | Extra |
| Field
               | Type
| country_id
               | int(5)
                              NO
                                      PRI | NULL
 country_name | varchar(20) |
                               NO
                                            NULL
 region_id
                int(5)
                               YES
                                            NULL
               | varchar(20) | YES
                                          NULL
| area
 rows in set (0.029 sec)
```

c. Modify the length of country id field to adding more 5 digits.

```
MariaDB [21co56]> ALTER TABLE country_new MODIFY country_id int(10);
Query OK, 0 rows affected (0.025 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

d. Display the structure of country_new table.

```
MariaDB [21co56]> DESCRIBE country_new;
| Field
               | Type
                             | Null | Key | Default | Extra
| country_id
               | int(10)
                                      PRI | NULL
                             l NO
| country_name | varchar(20) | NO
                                            NULL
                int(5)
 region_id
                             1 YES
                                            NULL
               | varchar(20) | YES
| area
                                            NULL
4 rows in set (0.024 sec)
```

e. Rename the column name region id to regionid.

```
MariaDB [21co56]> ALTER TABLE country_new CHANGE region_id regionId int(5);
Query OK, 0 rows affected (0.028 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

f. Display the structure of country_new table.

```
MariaDB [21co56]> DESCRIBE country_new;
| Field
                             | Null | Key | Default | Extra
               | Type
               | int(10)
 country_id
                               NO
                                      PRI | NULL
 country_name | varchar(20)
                               NO
                                            NULL
               | int(5)
 regionId
                              YES
                                          I NULL
               | varchar(20) | YES
                                          I NULL
l area
4 rows in set (0.026 sec)
```

g. Drop column area.

```
MariaDB [21co56]> ALTER TABLE country_new DROP COLUMN area;
Query OK, 0 rows affected (0.029 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

h. Display the structure of country_new table.

QUERY 12: Insert 5 records in country_new table.

```
MariaDB [21co56]> INSERT INTO country (country_id, country_name, region_id)
-> VALUES (1, "United States", 1);
Query OK, 1 row affected (0.009 sec)

MariaDB [21co56]> INSERT INTO country (country_id, country_name, region_id)
-> VALUES (2, "Canada", 1);
Query OK, 1 row affected (0.003 sec)

MariaDB [21co56]> INSERT INTO country (country_id, country_name, region_id)
-> VALUES (3, "United Kingdom", 2);
Query OK, 1 row affected (0.003 sec)

MariaDB [21co56]> INSERT INTO country (country_id, country_name, region_id)
-> VALUES (4, "Australia", 3);
Query OK, 1 row affected (0.007 sec)

MariaDB [21co56]> INSERT INTO country (country_id, country_name, region_id)
-> VALUES (5, "Germany", 2);
Query OK, 1 row affected (0.007 sec)
```

QUERY 13: Display the details of country_new table.

QUERY 14: Truncate country_new.

```
MariaDB [21co56]> TRUNCATE TABLE country_new;
Query OK, 0 rows affected (0.025 sec)
```

QUERY 15: Display the details of country_new table.

```
MariaDB [21co56]> SELECT * FROM country_new;
Empty set (0.001 sec)
```

QUERY 16: Display the structure of country new table.

QUERY 17: Drop table country new.

```
MariaDB [21co56]> DROP TABLE country_new;
Query OK, 0 rows affected (0.015 sec)
```

QUERY 18: Display the structure of country_new table.

```
MariaDB [21co56]> DESCRIBE country_new;
ERROR 1146 (42SO2): Table '21co56.country_new' doesn't exist
MariaDB [21co56]>
```