

# Group B - 2

## 1.CREATE TABLE

```
mysql> CREATE TABLE Student(s_id int,s_name varchar(10),depart_name varchar(10));
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO student VALUES("101","Ram","Information Technology"),("102","Suresh","Computer"),("103","Mahesh","E&TC");
ERROR 1406 (22001): Data too long for column 'depart_name' at row 1
mysql> INSERT INTO student VALUES("101","Ram","IT"),("102","Suresh","CS"),("103","Mahesh","E&TC");
Query OK, 3 rows affected (0.00 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> select * from student;
+-----+-----+-----+
| s_id | s_name | depart_name |
+-----+-----+-----+
| 101 | Ram    | IT          |
| 102 | Suresh | CS          |
| 103 | Mahesh | E&TC        |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

## 2.CREATE TABLE AS

```
mysql> CREATE TABLE testtable AS SELECT s_id,s_name FROM Student;
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> desc testtable;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| s_id  | int           | YES  |     | NULL    |       |
| s_name | varchar(10)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> |
```

## 3.ALTER TABLE

```
mysql> ALTER TABLE Student ADD s_address varchar(10);
Query OK, 0 rows affected (0.01 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM Student;
+-----+-----+-----+-----+
| s_id | s_name | depart_name | s_address |
+-----+-----+-----+-----+
| 101 | Ram    | IT          | NULL      |
| 102 | Suresh | CS          | NULL      |
| 103 | Mahesh | E&TC        | NULL      |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

## 4.ALTER TABLE.....MODIFY

```
mysql> desc student;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| s_id           | int           | YES  |     | NULL    |       |
| s_name         | varchar(10)   | YES  |     | NULL    |       |
| depart_name    | varchar(10)   | YES  |     | NULL    |       |
| s_address      | varchar(10)   | YES  |     | NULL    |       |
| s_mobile       | varchar(10)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> ALTER TABLE Student MODIFY s_mobile int;
Query OK, 3 rows affected (0.01 sec)
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> DESC Student;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| s_id           | int           | YES  |     | NULL    |       |
| s_name         | varchar(10)   | YES  |     | NULL    |       |
| depart_name    | varchar(10)   | YES  |     | NULL    |       |
| s_address      | varchar(10)   | YES  |     | NULL    |       |
| s_mobile       | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

## 5.DROP TABLE –

```
mysql> SELECT * FROM Sudent;
ERROR 1146 (42S02): Table 'assignmentb2.sudent' doesn't exist
mysql> SELECT * FROM Student;
+-----+-----+-----+-----+-----+
| s_id | s_name | depart_name | s_address | s_mobile |
+-----+-----+-----+-----+-----+
| 101 | Ram    | IT          | Pune      | NULL     |
| 102 | Suresh | CS          | A.NAGAR   | NULL     |
| 103 | Mahesh | E&TC        | Nagpur    | NULL     |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> DROP TABLE Student;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM Student;
ERROR 1146 (42S02): Table 'assignmentb2.student' doesn't exist
mysql> |
```

## 6.REMANE –

```
mysql> SELECT * FROM Student;
+-----+-----+-----+
| s_id | s_name | depart_name |
+-----+-----+-----+
| 101 | Ram    | IT          |
| 102 | Suresh | CS          |
| 103 | Mahesh | E&TC        |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> RENAME TABLE Student TO Student_Details;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM Student_Details;
+-----+-----+-----+
| s_id | s_name | depart_name |
+-----+-----+-----+
| 101 | Ram    | IT          |
| 102 | Suresh | CS          |
| 103 | Mahesh | E&TC        |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

## 7.TURNCATE –

```
mysql> select * from Studnet;
ERROR 1146 (42S02): Table 'assignmentb2.studnet' doesn't exist
mysql> select * from Student;
+-----+-----+-----+
| s_id | s_name | depart_name |
+-----+-----+-----+
| 101 | Ram    | IT          |
| 102 | Suresh | CS          |
| 103 | Mahesh | E&TC        |
+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> TRUNCATE TABLE Student;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM Student;
Empty set (0.00 sec)
```

## 1.PRIMARY KEY

```
mysql> use assignmentb3;
Database changed
mysql> CREATE TABLE Student(ID int NOT NULL,LastName varchar(255)NOT NULL,FirstName varchar(255)NOT NULL,Age int ,PRIMARY KEY (ID));
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> desc Student;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| ID    | int  | NO   | PRI | NULL    |       |
| LastName | varchar(255) | NO   |     | NULL    |       |
| FirstName | varchar(255) | NO   |     | NULL    |       |
| Age   | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

## 2.FOREIGN KEY

```
CREATE TABLE Orders (
  OrderID int NOT NULL,
  OrderNumber int NOT NULL,
  PersonID int,
  PRIMARY KEY (OrderID),
  FOREIGN KEY (PersonID) REFERENCES Persons(PersonID)
);
```

```
CREATE TABLE Orders (
  OrderID int NOT NULL PRIMARY KEY,
  OrderNumber int NOT NULL,
  PersonID int FOREIGN KEY REFERENCES Persons(PersonID)
);
```

### OUTPUT-

PersonID	LastName	FirstName	Age
1	Hansen	Ola	30
2	Svendson	Tove	23
3	Pettersen	Kari	20

### Orders Table

OrderID	OrderNumber	PersonID
1	77895	3
2	44678	3
3	22456	2
4	24562	1

# Group B – 4

## 1.OR

```
mysql> use assignmenttb4;
Database changed
mysql> select * from customer;
```

customer_id	customer_Name	address	city	Postal_Code	country
1	Suresh	43,Ram Nagar	Pune	411041	India
2	ramesh	24,place kebar	strasbourg	78965	France
3	Jonny	c,Araquil	Madrid	78596	Spain
4	Messy	Cerrito	Buenos	85961	Argentina

```
4 rows in set (0.00 sec)

mysql> SELECT * FROM Customer WHERE City="Pune" OR Country="France";
```

customer_id	customer_Name	address	city	Postal_Code	country
1	Suresh	43,Ram Nagar	Pune	411041	India
2	ramesh	24,place kebar	strasbourg	78965	France

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

## 2.AND

```
mysql> use assignmenttb4;
Database changed
mysql> select * from customer;
```

customer_id	customer_Name	address	city	Postal_Code	country
1	Suresh	43,Ram Nagar	Pune	411041	India
2	ramesh	24,place kebar	strasbourg	78965	France
3	Jonny	c,Araquil	Madrid	78596	Spain
4	Messy	Cerrito	Buenos	85961	Argentina
5	Nikhil	d,foundline	Nagpur	48596	India

```
5 rows in set (0.00 sec)

mysql> SELECT * FROM Customer WHERE Country="India" AND Customer_Name="Nikhil";
```

customer_id	customer_Name	address	city	Postal_Code	country
5	Nikhil	d,foundline	Nagpur	48596	India

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

## 3.NOT

```
mysql> use assignmenttb4;
Database changed
mysql> select * from customer;
```

customer_id	customer_Name	address	city	Postal_Code	country
1	Suresh	43,Ram Nagar	Pune	411041	India
2	ramesh	24,place kebar	strasbourg	78965	France
3	Jonny	c,Araquil	Madrid	78596	Spain
4	Messy	Cerrito	Buenos	85961	Argentina
5	Nikhil	d,foundline	Nagpur	48596	India

```
5 rows in set (0.00 sec)

mysql> SELECT * FROM Customer WHERE NOT Country="India";
```

customer_id	customer_Name	address	city	Postal_Code	country
2	ramesh	24,place kebar	strasbourg	78965	France
3	Jonny	c,Araquil	Madrid	78596	Spain
4	Messy	Cerrito	Buenos	85961	Argentina

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

## 4.ORDER BY

```
mysql> SELECT * FROM Customer ORDER BY City;
```

customer_id	customer_Name	address	city	Postal_Code	country
4	Messy	Cerrito	Buenos	85961	Argentina
3	Jonny	c,Araquil	Madrid	78596	Spain
5	Nikhil	d,foundline	Nagpur	48596	India
1	Suresh	43,Ram Nagar	Pune	411041	India
2	ramesh	24,place kebar	strasbourg	78965	France

5 rows in set (0.00 sec)

## 5.MAX

```
mysql> select * from customer;
```

customer_id	customer_Name	address	city	Postal_Code	country	purchase_price
1	Suresh	43,Ram Nagar	Pune	411041	India	10000
2	ramesh	24,place kebar	strasbourg	78965	France	25000
3	Jonny	c,Araquil	Madrid	78596	Spain	5000
4	Messy	Cerrito	Buenos	85961	Argentina	100000
5	Nikhil	d,foundline	Nagpur	48596	India	75869

5 rows in set (0.00 sec)

```
mysql> SELECT MAX(purchase_price) AS Maximum_Purchase FROM Customer;
```

Maximum_Purchase
100000

1 row in set (0.00 sec)

## 6.MIN

```
mysql> select * from customer;
```

customer_id	customer_Name	address	city	Postal_Code	country	purchase_price
1	Suresh	43,Ram Nagar	Pune	411041	India	10000
2	ramesh	24,place kebar	strasbourg	78965	France	25000
3	Jonny	c,Araquil	Madrid	78596	Spain	5000
4	Messy	Cerrito	Buenos	85961	Argentina	100000
5	Nikhil	d,foundline	Nagpur	48596	India	75869

5 rows in set (0.00 sec)

```
mysql> SELECT MIN(purchase_price) AS Minimum_Purchase FROM Customer;
```

Minimum_Purchase
5000

1 row in set (0.00 sec)

## 7.AVG

```
mysql> select * from customer;
```

customer_id	customer_Name	address	city	Postal_Code	country	purchase_price
1	Suresh	43,Ram Nagar	Pune	411041	India	10000
2	ramesh	24,place kebar	strasbourg	78965	France	25000
3	Jonny	c,Araquil	Madrid	78596	Spain	5000
4	Messy	Cerrito	Buenos	85961	Argentina	100000
5	Nikhil	d,foundline	Nagpur	48596	India	75869

5 rows in set (0.00 sec)

```
mysql> SELECT AVG(purchase_price) AS Avg_Purchase FROM Customer;
```

Avg_Purchase
43173.8000

1 row in set (0.00 sec)

## 8.SUM

```
mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| customer_id | customer_Name | address      | city      | Postal_Code | country  | purchase_price |
+-----+-----+-----+-----+-----+-----+
| 1 | Suresh      | 43,Ram Nagar | Pune      | 411041 | India   | 10000 |
| 2 | ramesh      | 24,place kebar | strasbourg | 78965 | France  | 25000 |
| 3 | Jonny       | c,Araquil    | Madrid    | 78596 | Spain   | 5000  |
| 4 | Messy       | Cerrito      | Buenos    | 85961 | Argentina | 100000 |
| 5 | Nikhil      | d,foundline  | Nagpur    | 48596 | India   | 75869 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT SUM(purchase_price) AS Total_Purchase FROM Customer;
+-----+
| Total_Purchase |
+-----+
| 215869 |
+-----+
1 row in set (0.00 sec)
```

## 9.LIKE OPERATOR

```
mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| customer_id | customer_Name | address      | city      | Postal_Code | country  | purchase_price |
+-----+-----+-----+-----+-----+-----+
| 1 | Suresh      | 43,Ram Nagar | Pune      | 411041 | India   | 10000 |
| 2 | ramesh      | 24,place kebar | strasbourg | 78965 | France  | 25000 |
| 3 | Jonny       | c,Araquil    | Madrid    | 78596 | Spain   | 5000  |
| 4 | Messy       | Cerrito      | Buenos    | 85961 | Argentina | 100000 |
| 5 | Nikhil      | d,foundline  | Nagpur    | 48596 | India   | 75869 |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT * FROM Customer WHERE Customer_Name LIKE 's%';
+-----+-----+-----+-----+-----+-----+
| customer_id | customer_Name | address      | city      | Postal_Code | country  | purchase_price |
+-----+-----+-----+-----+-----+-----+
| 1 | Suresh      | 43,Ram Nagar | Pune      | 411041 | India   | 10000 |
+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT * FROM Customer WHERE Customer_Name LIKE '%y';
+-----+-----+-----+-----+-----+-----+
| customer_id | customer_Name | address      | city      | Postal_Code | country  | purchase_price |
+-----+-----+-----+-----+-----+-----+
| 3 | Jonny       | c,Araquil    | Madrid    | 78596 | Spain   | 5000  |
| 4 | Messy       | Cerrito      | Buenos    | 85961 | Argentina | 100000 |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

## 10.UNION

```
mysql> select * from Suppliers;
+-----+-----+-----+
| s_id | Country | s_name |
+-----+-----+-----+
| 101 | Germany | Teddy  |
| 102 | Spain   | Erin   |
| 103 | India   | Prasad |
| 104 | Argentina | vinay |
+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> SELECT Country FROM Customer WHERE Country="India" UNION SELECT Country FROM Suppliers WHERE Country="Spain";
+-----+
| Country |
+-----+
| India   |
| Spain   |
+-----+
2 rows in set (0.00 sec)
```