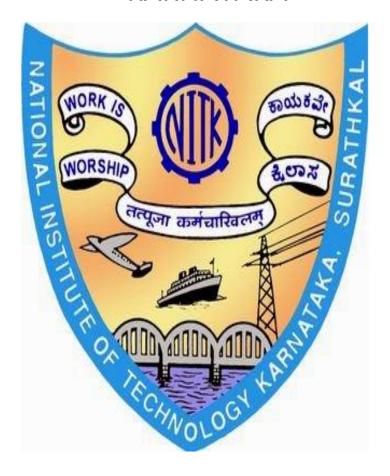
NATIONAL INSTITUTE OF TECHNOLGY KARNATAKA



DATABASE SYSTEM LAB REPORT : 1

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Roll No : 211CS257 Code : CS254

Q1) Create table called 'Employee'

a) Add column 'Commission' with Domain to the table.

b) Insert any five records to the table:

Empno EmpName				Commission
+ 1 Robert Downy 2 Virat Kohli 3 Ratan Tata	Actor Cricketer	321 101		NULL 10000
4 Ronaldo 5 Modi ji	Footbaler PM	506 1010	2140000000 100000	:

C) Update the column details of 'Job':

Empno EmpName	•			
1 Robert Downy				
2 Virat Kohli	•			
3 Ratan Tata	PM	786	2137869080	500000
4 Ronaldo	Footbaler	506	2140000000	50000
5 Modi ji	CM	1010	100000	99999
19 Denver	Actor	100	1000000	999

d) Rename the column of Employee table using 'ALTER' command:

```
mysql> ALTER TABLE Employee CHANGE COLUMN EmpName Stu_Name VARCHAR(25);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> SELECT *FROM Employee;
                                   | Mgr | sal | Commission |
| Empno | Stu_Name | Job
     1 | Robert Downy | Actor | 321 | 1000000000 | 2 | Virat Kohli | Singer | 101 | 673000675 | 3 | Ratan Tata | PM | 786 | 2137869080 |
                                                                    NULL
                                                                  10000
                                                                  500000
      4 | Ronaldo
                        | Footbaler | 506 | 2140000000 |
                                                                  50000
      5 | Modi ji
                         CM
                                                                   99999
                                      | 1010 |
                                                  100000
     19 | Denver
                         Actor
                                      | 100 |
                                                                     999 I
```

e) Delete the employee whose Empno is 19:

```
mysql> DELETE FROM Employee WHERE Empno=19;
Query OK, 1 row affected (0.00 sec)
mysql> SELECT *FROM Employee;
                                | Mgr | sal
 Empno | Stu_Name | Job
                                                    Commission
     1 | Robert Downy | Actor | 321 | 1000000000 |
                                                            NULL
                      | Singer | 101 | 673000675 |
| PM | 786 | 2137860000
     2 | Virat Kohli | Singer
                                                            10000
     3 | Ratan Tata
                                                           500000
     4 | Ronaldo
                      | Footbaler |
                                   506 | 2140000000 |
                                                            50000
                                              100000
     5 | Modi ji
                      I CM
                                  1010
                                                            99999
```

Q2) Create table name 'Department':

```
mysql> SELECT * FROM Department;

| DeptNo | DeptName | Location |

| 1 | CSE | Near NITK_Guesthouse |
```

a) Add column 'Designation' to the table:

```
mysql> SELECT * FROM Department;

+----+
| DeptNo | DeptName | Location | Designation |

+---+
| 1 | CSE | Near NITK_Guesthouse | NULL |
```

b) Insert values into table:

c) List the records of employee table grouped by DeptNo:

d) Update the record where DeptNo is 9:

e) Delete any column data from table:

- Q3) Create table name 'Customer':
 - a) Insert records into the table:

b) Add 'Salary' column to the table:

c) Drop the 'Salary' column of the table:

d) Delete the rows of 'Customer' table where Cust_City is 'HYD':

Q4) Create table 'Branch':

a) Increse the size of data type for 'Asserts' to the Branch:

```
mysql> CREATE TABLE Branch(Branch_Name VARCHAR(20),Branch_City VARCHAR(20),Asserts INT(100),PRIMARY KEY(Branch_Name));
Query OK, 0 rows affected (0.01 sec)
mysql> ALTER TABLE Branch MODIFY Asserts INT(255);
Query OK, 0 rows affected (0.00 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

b) Add and Drop a column to the Branch table:

Adding:

Dropping:

c) Insert values to the table:

d) Update the Branch_Name column:

e) Delete any two column from table:

Q5) Create table 'Sailor':

a) Add column 'Age' to the table:

```
mysql> ALTER TABLE Sailor ADD Age INT;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> SELECT * FROM Sailor;
+----+
| Sid | Sname | Rating | Age |
+----+
| 101 | Swiggy | 6 | NULL |
+----+
```

b) Insert values into table:

c) Delete the row with Rating>8:

d) Update the column details of 'Sailor':

```
mysql> UPDATE Sailor SET Rating='10';
Query OK, 4 rows affected (0.00 sec)
Rows matched: 4 Changed: 4 Warnings: 0

mysql> SELECT * FROM Sailor;
+----+
| Sid | Sname | Rating | Age |
+----+
| 101 | Swiggy | 10 | NULL |
| 286 | Amazon | 10 | 20 |
| 305 | Zomato | 10 | 10 |
| 786 | Myntra | 10 | 8 |
```

e) Insert NULL values to the table:

- Q6) Create table name 'Reserves':
 - a) Insert values to the table:

```
mysql> SELECT * FROM Reserves;
+-----+
| Boat_id | S_id | Day |
+----+
| 10 | 9999 | 1 |
| 12 | 99 | 4 |
| 15 | 1024 | 2 |
| 16 | 121 | 3 |
| 31 | 1010 | 6 |
```

b) Add column 'time' to the table:

```
mysql> ALTER TABLE Reserves ADD time TIME;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> SELECT *FROM Reserves;
| Boat_id | S_id | Day | time |
                   1 | NULL
      10 | 9999 |
      12
             99 |
                    4
      15 | 1024 |
                    2 | NULL
       16
           121
                    3 |
                         NULL
       31 | 1010 |
                     6 | NULL
```

c) Alter the column 'Day' data type to DATE:

```
mysql> ALTER TABLE Reserves DROP COLUMN Day;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> ALTER TABLE Reserves ADD Day DATE;
Query OK, 0 rows affected (0.04 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

d) Drop the column 'time' in the table:

e) Delete the row of the table with some condition:

```
mysql> DELETE FROM Reserves WHERE S_id=99;
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM Reserves;
+-----+
| Boat_id | S_id | Day |
+----+
| 10 | 9999 | NULL |
| 15 | 1024 | NULL |
| 31 | 1010 | NULL |
+-----+
```