



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

Department of Information Technology

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Class / Branch: SE IT

Subject: SQL Lab

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Experiment No. 3

Aim:- To study and implement data definition language (DDL) commands.

Queries:

Start MySQL: mysql -u root -p

Enter Password

Create DATABASE:

create database databaseName;

use databaseName;

```
mysql> create table emp(eno int,name varchar(99),job varchar(20),sal int(6));
Query OK, 0 rows affected (0.24 sec)

mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eno   | int(11)       | YES  |     | NULL    |       |
| name  | varchar(99)   | YES  |     | NULL    |       |
| job   | varchar(20)   | YES  |     | NULL    |       |
| sal   | int(6)        | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> alter table emp add(phone_no char(20));
Query OK, 0 rows affected (0.39 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

Q1. Create a table called EMP with the following structure

Name	Type

EMPNO	NUMBER(6)
ENAME	VARCHAR2(20)
JOB	VARCHAR2(10)
DEPTNO	NUMBER(3)
SAL	NUMBER(7)

Allow NULL for all columns except ename and job.

```
SQL> create table emp(empno int, ename varchar(20), job varchar(10),  
deptno int, sal int);  
Table created.
```

Q2: Add a column experience to the emp table. experience numeric null allowed.

```
SQL> alter table emp add(experience int);  
Table altered.
```

Q3: Modify the column width of the job field of emp table.

```
SQL> alter table emp modify job varchar(12);  
Table altered.  
SQL> alter table emp modify job varchar(13);  
Table altered.
```

```
mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eno        | int(11)       | YES  |     | NULL    |       |
| name       | varchar(99)   | YES  |     | NULL    |       |
| job        | varchar(20)   | YES  |     | NULL    |       |
| sal        | int(6)        | YES  |     | NULL    |       |
| phone_no   | char(20)      | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> alter table emp modify phone_no int(20);
Query OK, 0 rows affected (0.52 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

Q4: Create dept table with the following structure

Name	Type
DEPTNO	NUMBER(2)
DNAME	VARCHAR2(10)
LOC	VARCHAR2(10)

Deptno as the primarykey

```
SQL> create table dept(deptno int primary key, dname varchar(10), loc
varchar(10));
Table created.
```

```
mysql> desc emp;
```

Field	Type	Null	Key	Default	Extra
eno	int(11)	YES		NULL	
name	varchar(99)	YES		NULL	
job	varchar(20)	YES		NULL	
sal	int(6)	YES		NULL	
phone_no	int(20)	YES		NULL	

5 rows in set (0.01 sec)

Q5: drop a column experience to the emp table.

```
SQL> alter table emp drop column experience;  
Table altered.
```

Q6: Truncate the emp table and drop the dept table

```
SQL> truncate table emp;  
Table truncated.
```

```
SQL> drop table dept;  
Table dropped.
```

```
mysql> alter table emp drop column job;
Query OK, 0 rows affected (0.41 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc emp;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| eno        | int(11)       | YES  |     | NULL    |       |
| name       | varchar(99)   | YES  |     | NULL    |       |
| sal        | int(6)        | YES  |     | NULL    |       |
| phone_no   | int(20)       | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> drop table emp;
Query OK, 0 rows affected (0.14 sec)

mysql> desc emp;
ERROR 1146 (42S02): Table 'Employee.emp' doesn't exist
mysql> 
```

Conclusion: In this experiment we have studied about DDL commands like create, alter, drop, desc, etc.