

PUNE VIDYARTHI GRIHA'S
COLLEGE OF ENGINEERING & TECHNOLOGY and GKPIOM, PUNE –
9 DEPARTMENT OF INFORMATION TECHNOLOGY

Assignment No: 3 PART(B)

Assignment Submission Date:

Subject: Database Management System Laboratory

Name: Roll No: **Problem Statement:**

Create Table with primary key and foreign key constraints.

a. Alter table with add,modify,drop,rename clause b. Drop table

Name = Tejas Pramod Patil
SE-IT
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```
mysql> create table EMP(
->     EMPNO int(10) PRIMARY KEY,
->     ENAME varchar(20),
->     JOB char(10),
->     MGR int(20),
->     HIREDATE date,
->     SAL int(20),
->     COMM int(20),
->     DEPTNO int(10));
Query OK, 0 rows affected, 5 warnings (0.93 sec)
```

```
mysql> create table DEPT(
->     DEPTNO int(10) PRIMARY KEY,
->     EMPNO int(10),
->     DNAME varchar(20),
->     LOC varchar(20),
->     FOREIGN KEY(EMPNO) REFERENCES EMP(EMPNO)
-> );
Query OK, 0 rows affected, 2 warnings (0.61 sec)
```

```
mysql> insert into EMP values (7369,'Smith',
'Clerk',7902,'1980/12/17',800,NULL,20),
-> (7499,'Allen','Salesman',7698,'1981/2/20',1600,300,30),
-> (7521,'Ward','Salesman',7698,'1981/2/22',1250,500,30),
-> (7566,'Jones','Manager',7839,'1981/4/2',2975,NULL,20),
-> (7654,'Martin','Salesman',7698,'1981/9/28',1250,1400,30),
-> (7698,'Blake','Manager',7839,'1981/5/1',2850,NULL,30),
-> (7782,'Clark','Manager',7839,'1981/6/9',2450,NULL,10),
-> (7788,'Scott','Analyst',7566,'1982/12/9',3000,NULL,20),
-> (7839,'King','President',NULL,'1981/11/17',5000,NULL,10),
-> (7844,'Turner','Salesman',7698,'1981/9/8',1500,0,30),
-> (7876,'Adams','Clerk',7788,'1983/1/12',1100,NULL,20),
-> (7900,'James','Clerk',7698,'1981/12/3',950,NULL,30),
-> (7902,'Ford','Analyst',7566,'1981/12/4',3000,NULL,20),
-> (7934,'Miller','Clerk',7782,'1982/1/23',1300,NULL,10);
Query OK, 14 rows affected (0.10 sec)
Records: 14  Duplicates: 0  Warnings: 0
```

```
insert into DEPT values (10,7566,'Accounting','New York'),
(20,7900,'Research','Dallas'),
(30,7902,'Sales','Chicago'),
(40,7934,'Operations','Boston');
```

```
mysql> insert into DEPT values (10,7566,'Accounting','New York'),
-> (20,7900,'Research','Dallas'),
-> (30,7902,'Sales','Chicago'),
-> (40,7934,'Operations','Boston');
Query OK, 4 rows affected (0.21 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> desc EMP;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| EMPNO | int(10) | NO | PRIMARY |  |  |
| ENAME | varchar(20) | YES |  |  |  |
| JOB | char(10) | YES |  |  |  |
| MGR | int(20) | YES |  |  |  |
| HIREDATE | date | YES |  |  |  |
| SAL | int(20) | YES |  |  |  |
| COMM | int(20) | YES |  |  |  |
| DEPTNO | int(10) | YES |  |  |  |
```

EMPNO	int	NO	PRI	NULL		
ENAME	varchar(20)	YES		NULL		
JOB	char(10)	YES		NULL		
MGR	int	YES		NULL		
HIREDATE	date	YES		NULL		
SAL	int	YES		NULL		
COMM	int	YES		NULL		
DEPTNO	int	YES		NULL		

8 rows in set (0.04 sec)

mysql> desc DEPT;

Field	Type	Null	Key	Default	Extra
DEPTNO	int	NO	PRI	NULL	
EMPNO	int	YES	MUL	NULL	
DNAME	varchar(20)	YES		NULL	
LOC	varchar(20)	YES		NULL	

4 rows in set (0.00 sec)

mysql> alter table EMP add EMP_Address char(20);

Query OK, 0 rows affected (0.58 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc EMP;

Field	Type	Null	Key	Default	Extra
EMPNO	int	NO	PRI	NULL	
ENAME	varchar(20)	YES		NULL	
JOB	char(10)	YES		NULL	
MGR	int	YES		NULL	
HIREDATE	date	YES		NULL	
SAL	int	YES		NULL	
COMM	int	YES		NULL	
DEPTNO	int	YES		NULL	
EMP_Address	char(20)	YES		NULL	

9 rows in set (0.01 sec)

mysql> alter table EMP drop EMP_Address;

Query OK, 0 rows affected (1.57 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc EMP;

Field	Type	Null	Key	Default	Extra
EMPNO	int	NO	PRI	NULL	
ENAME	varchar(20)	YES		NULL	
JOB	char(10)	YES		NULL	
MGR	int	YES		NULL	
HIREDATE	date	YES		NULL	
SAL	int	YES		NULL	
COMM	int	YES		NULL	
DEPTNO	int	YES		NULL	

8 rows in set (0.01 sec)

```
mysql> alter table EMP modify column ENAME char(20);
Query OK, 14 rows affected (2.67 sec)
Records: 14  Duplicates: 0  Warnings: 0
```

```
mysql> desc EMP;
```

Field	Type	Null	Key	Default	Extra
EMPNO	int	NO	PRI	NULL	
ENAME	char(20)	YES		NULL	
JOB	char(10)	YES		NULL	
MGR	int	YES		NULL	
HIREDATE	date	YES		NULL	
SAL	int	YES		NULL	
COMM	int	YES		NULL	
DEPTNO	int	YES		NULL	

8 rows in set (0.00 sec)

```
mysql> alter table EMP rename column ENAME to EMPLOYEE_NAME;
Query OK, 0 rows affected (0.80 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> desc EMP;
```

Field	Type	Null	Key	Default	Extra
EMPNO	int	NO	PRI	NULL	
EMPLOYEE_NAME	char(20)	YES		NULL	
JOB	char(10)	YES		NULL	
MGR	int	YES		NULL	
HIREDATE	date	YES		NULL	
SAL	int	YES		NULL	
COMM	int	YES		NULL	
DEPTNO	int	YES		NULL	

8 rows in set (0.01 sec)

```
mysql> alter table DEPT add DEPT_SERVICE char(20);
Query OK, 0 rows affected (0.36 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> desc DEPT;
```

Field	Type	Null	Key	Default	Extra
DEPTNO	int	NO	PRI	NULL	
EMPNO	int	YES	MUL	NULL	
DNAME	varchar(20)	YES		NULL	
LOC	varchar(20)	YES		NULL	
DEPT_SERVICE	char(20)	YES		NULL	

5 rows in set (0.01 sec)

```
mysql> alter table DEPT drop DEPT_SERVICE;
Query OK, 0 rows affected (1.79 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
mysql> desc DEPT;
```

Field	Type	Null	Key	Default	Extra
DEPTNO	int	NO	PRI	NULL	
EMPNO	int	YES	MUL	NULL	
DNAME	varchar(20)	YES		NULL	
LOC	varchar(20)	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> alter table DEPT modify LOC char(20);
```

Query OK, 4 rows affected (2.03 sec)

Records: 4 Duplicates: 0 Warnings: 0

```
mysql> desc DEPT;
```

Field	Type	Null	Key	Default	Extra
DEPTNO	int	NO	PRI	NULL	
EMPNO	int	YES	MUL	NULL	
DNAME	varchar(20)	YES		NULL	
LOC	char(20)	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> alter table DEPT RENAME column LOC to LOCATION;
```

Query OK, 0 rows affected (0.42 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc DEPT;
```

Field	Type	Null	Key	Default	Extra
DEPTNO	int	NO	PRI	NULL	
EMPNO	int	YES	MUL	NULL	
DNAME	varchar(20)	YES		NULL	
LOCATION	char(20)	YES		NULL	

4 rows in set (0.00 sec)

```
mysql> show tables;
```

Tables_in_COMPANY
DEPENDENT
DEPT
EMP

3 rows in set (0.00 sec)

```
mysql> drop table DEPENDENT;
```

Query OK, 0 rows affected (0.65 sec)

```
mysql> show TABLES;
```

|--|

```
| Tables_in_COMPANY |
+-----+
| DEPT              |
| EMP               |
+-----+
2 rows in set (0.01 sec)
```