

### EXPERIMENT 3

#### AIM:

1.Create a table emp with attributes empno number(4)as primary key, ename char(10),hiredate, salary, commission

insert 5 rows of data

```
101   Ramesh           17-Jan-1980   5000   ;
102   Ajay    05-Jul-1985   5000   500;
103   Ravi    12-Aug-1981   1500   ;
104   Nikesh           03-Mar-1983   3000   700;
105   Ravi    05-jul-1985   3000;
```

2.Modifying the structure of tables

a.Add new columns: sal number(7,2)

b.Dropping a column from a table: sal

c.Modifying existing column :ename varchar2(15)

d.Renaming the tables: emp to emp1

e.truncating the tables:emp1

f.Destroying tables:emp

3.Create a table stud with sname varchar2(20) primary key , rollno number(10) not null,dob date not null

4.Create a table student as regno number (6), mark number (3) check constraint (mark >=0 and mark <=100));

In table student add check constraint(length(regno<=4))

5.Create a table cust with(custid number(6) constraint unique, name char(10)

6. Refer the table “stud” in table “ student”

#### SQL Commands:

```
CREATE TABLE emp(EMPNO INT(4) PRIMARY KEY, ENAME CHAR(10), HIREDATE
DATE, SALARY INT(5), COMMISSION INT(5));
```

```
INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY) VALUES
(101,'RAMESH','1980-01-17',5000),(102,'AJAY','1985-07-05',5000,500),
(103,'RAVI','1981-08-12',1500),(104,'Nikesh','1983-03-03',3000,700),
(105,'Ravi','1985-07-05',3000);
```

```
ALTER TABLE emp ADD sal int;
```

```
ALTER TABLE emp DROP COLUMN sal;
```

```
ALTER TABLE emp MODIFY ename VARCHAR(15);
```

```
RENAME table emp to emp1;
```

```
TRUNCATE TABLE emp1;
```

```
DROP TABLE emp1;
```

```
CREATE TABLE stud(sname varchar(20) PRIMARY KEY, rollno int NOT NULL, dob date NOT NULL);
```

```
SELECT * FROM stud;
```

```
Create table student (regno int, mark int(3) constraint b check (mark >=0 and mark <=100));  
SELECT * from STUDENT;
```

```
Alter table student add regno check (length(regno)<=4));
```

```
CREATE TABLE cust(custid number(6) UNIQUE, name char(10));
```

### **OUTPUT:**

```
mysql> CREATE TABLE emp(EMPNO NUMBER(4) PRIMARY KEY,  
->      ENAME CHAR(10),  
->      HIREDATE DATE,  
->      SALARY NUMBER(5),  
->      COMMISSION NUMBER(5));
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'NUMBER(4) PRIMARY KEY,

ENAME CHAR(10),  
HIREDATE ' at line 1

```
mysql> CREATE TABLE emp(EMPNO INT(4) PRIMARY KEY,  
->      ENAME CHAR(10),  
->      HIREDATE DATE,  
->      SALARY NUMBER(5),  
->      COMMISSION NUMBER(5));
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'NUMBER(5), COMMISSION NUMBER(5))' at line 4

```
mysql> CREATE TABLE emp(EMPNO INT(4) PRIMARY KEY,  
->      ENAME CHAR(10),  
->      HIREDATE DATE,  
->      SALARY INT(5),  
->      COMMISSION NUMBER(5));
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'NUMBER(5))' at line 5

```
mysql> CREATE TABLE emp(EMPNO INT(4) PRIMARY KEY,  
->      ENAME CHAR(10),  
->      HIREDATE DATE,  
->      SALARY INT(5),  
->      COMMISSION INT(5));
```

Query OK, 0 rows affected, 3 warnings (0.04 sec)

```
mysql> INSERT INTO emp VALUES(101,'RAMESH','17-01-1980',5000);
```

```
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO emp VALUES(102,'AJAY','05-07-1985',5000,500);
ERROR 1292 (22007): Incorrect date value: '05-07-1985' for column 'HIREDATE' at row 1
mysql> INSERT INTO emp VALUES(103,'RAVI','12-08-1981',1500);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO emp VALUES(104,'03-03-1983',3000,700);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO emp VALUES(101,'RAMESH','17-01-1980',5000);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY)
VALUES(101,'RAMESH','17-01-1980',5000);
ERROR 1292 (22007): Incorrect date value: '17-01-1980' for column 'HIREDATE' at row 1
mysql> INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY)
VALUES(101,'RAMESH','1980-01-17',5000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY,COMMISSION)
VALUES(102,'AJAY','05-07-1985',5000,500);
ERROR 1292 (22007): Incorrect date value: '05-07-1985' for column 'HIREDATE' at row 1
mysql> INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY,COMMISSION)
VALUES(102,'AJAY','1985-07-05',5000,500);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY)
VALUES(103,'RAVI','1981-08-12',1500);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO emp(EMPNO,HIREDATE,SALARY,COMMISSION)
VALUES(104,'Nikesh','1983-03-03',3000,700);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY,COMMISSION)
VALUES(104,'Nikesh','1983-03-03',3000,700);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> INSERT INTO emp(EMPNO,ENAME,HIREDATE,SALARY)
VALUES(105,'Ravi','1985-07-05',3000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> ALTER TABLE emp ADD sal number(7,2);
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that
corresponds to your MySQL server version for the right syntax to use near 'number(7,2)' at
line 1
mysql> ALTER TABLE emp ADD sal int;
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from emp
-> select * from emp;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'select \* from emp' at line 2

mysql> select \* from emp;

EMPNO	ENAME	HIREDATE	SALARY	COMMISSION	sal
101	RAMESH	1980-01-17	5000	NULL	NULL
102	AJAY	1985-07-05	5000	500	NULL
103	RAVI	1981-08-12	1500	NULL	NULL
104	Nikesh	1983-03-03	3000	700	NULL
105	Ravi	1985-07-05	3000	NULL	NULL

5 rows in set (0.00 sec)

mysql> ALTER TABLE emp DROP COLUMN sal;

Query OK, 0 rows affected (0.06 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select \* from emp;

EMPNO	ENAME	HIREDATE	SALARY	COMMISSION
101	RAMESH	1980-01-17	5000	NULL
102	AJAY	1985-07-05	5000	500
103	RAVI	1981-08-12	1500	NULL
104	Nikesh	1983-03-03	3000	700
105	Ravi	1985-07-05	3000	NULL

5 rows in set (0.00 sec)

mysql> ALTER TABLE emp MODIFY ename VARCHAR2(15);

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'VARCHAR2(15)' at line 1

mysql> ALTER TABLE emp MODIFY ename VARCHAR(15);

Query OK, 5 rows affected (0.06 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql> select \* from emp;

EMPNO	ename	HIREDATE	SALARY	COMMISSION
101	RAMESH	1980-01-17	5000	NULL
102	AJAY	1985-07-05	5000	500
103	RAVI	1981-08-12	1500	NULL
104	Nikesh	1983-03-03	3000	700
105	Ravi	1985-07-05	3000	NULL

5 rows in set (0.00 sec)

```
mysql> RENAME emp to emp1;  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that  
corresponds to your MySQL server version for the right syntax to use near 'emp to emp1' at  
line 1
```

```
mysql> RENAME table emp to emp1;  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> select * from emp;  
ERROR 1146 (42S02): Table 'dbmsassignment.emp' doesn't exist  
mysql> select * from emp1;
```

```
+-----+-----+-----+-----+-----+  
| EMPNO | ename  | HIREDATE | SALARY | COMMISSION |  
+-----+-----+-----+-----+-----+  
| 101 | RAMESH | 1980-01-17 | 5000 | NULL |  
| 102 | AJAY   | 1985-07-05 | 5000 | 500 |  
| 103 | RAVI   | 1981-08-12 | 1500 | NULL |  
| 104 | Nikesh | 1983-03-03 | 3000 | 700 |  
| 105 | Ravi   | 1985-07-05 | 3000 | NULL |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

```
mysql> TRUNCATE TABLE emp1;  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select * from emp1;  
Empty set (0.00 sec)
```

```
mysql> desc emp1;  
+-----+-----+-----+-----+-----+  
| Field  | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+  
| EMPNO  | int       | NO   | PRI | NULL    |      |  
| ename   | varchar(15) | YES  |     | NULL    |      |  
| HIREDATE | date      | YES  |     | NULL    |      |  
| SALARY  | int       | YES  |     | NULL    |      |  
| COMMISSION | int       | YES  |     | NULL    |      |  
+-----+-----+-----+-----+-----+  
5 rows in set (0.01 sec)
```

```
mysql> DROP TABLE emp1;  
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc emp1;  
ERROR 1146 (42S02): Table 'dbmsassignment.emp1' doesn't exist  
mysql>
```

```
mysql> CREATE TABLE stud(sname varchar(20) PRIMARY KEY,  
-> rollno NOT NULL,  
-> dob date NOT NULL);
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'NOT NULL, dob date NOT NULL)' at line 2

```
mysql> CREATE TABLE stud(sname varchar(20) PRIMARY KEY,
-> CREATE TABLE stud(sname varchar(20) PRIMARY KEY,
-> rollno NOT NULL,
-> desc emp1;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'CREATE TABLE stud(sname varchar(20) PRIMARY KEY, rollno NOT ' at line 2

```
mysql>
mysql> CREATE TABLE stud(sname varchar(20) PRIMARY KEY,
-> rollno int NOT NULL,
-> dob date NOT NULL);
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> Create table student (regno number (6),
-> mark number (3) constraint b check (mark >=0 and mark <=100));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'number (6), mark number (3) constraint b check (mark >=0 an' at line 1
```

```
mysql> Alter table student add constraint b2 check (length(regno<=4));
```

ERROR 1146 (42S02): Table 'dbmsassignment.student' doesn't exist

```
mysql> Create table student (regno int,
-> mark int(3) constraint b check (mark >=0 and mark <=100));
Query OK, 0 rows affected, 1 warning (0.03 sec)
```

```
mysql> select * from student;
Empty set (0.02 sec)
```

```
mysql> desc student;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| regno | int  | YES  |     | NULL    |       |
| mark  | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

```
mysql> Alter table student add constraint b2 check (length(regno<=4));
ERROR 3812 (HY000): An expression of non-boolean type specified to a check constraint 'b2'.
```

```
mysql> Alter table student add regno check (length(regno<=4));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'check (length(regno<=4))' at line 1
```

```
mysql> Alter table student set regno check (length(regno<=4));
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'set regno check (length(regno<=4))' at line 1

mysql> alter table student add constraint b2 check (length(regno<=4));

ERROR 3812 (HY000): An expression of non-boolean type specified to a check constraint 'b2'.

mysql> select \* from student;

Empty set (0.00 sec)

mysql> desc student;

Field	Type	Null	Key	Default	Extra
regno	int	YES		NULL	
mark	int	YES		NULL	

2 rows in set (0.00 sec)

mysql> Alter table student CHECK (regno IN (length(regno<=4)));

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(regno IN (length(regno<=4)))' at line 1

mysql> Alter table student CHECK (regno(length(regno<=4)));

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '(regno(length(regno<=4)))' at line 1

mysql>