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Roll no: 40

Class: RMCA-B

Experiment No: 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>
```