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**Roll no:22**

**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.Destroyingtables: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 salint;

ALTER TABLE emp DROP COLUMN sal;

ALTER TABLE emp MODIFY enameVARCHAR(15);

RENAME table emp to emp1;

TRUNCATE TABLE emp1;

DROP TABLE emp1;

CREATE TABLE stud(snamevarchar(20) PRIMARY KEY, rollnoint NOT NULL, dob date NOT NULL);

SELECT \* FROM stud;

Create table student (regnoint, 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 salint;

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(snamevarchar(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(snamevarchar(20) PRIMARY KEY,

-> CREATE TABLE stud(snamevarchar(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(snamevarchar(20) PRIMARY KEY,

rollno NOT ' at line 2

mysql>

mysql> CREATE TABLE stud(snamevarchar(20) PRIMARY KEY,

->rollnoint 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 (regnoint,

-> 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>