**ASSIGNMENT**

Submitted to,

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**1.CREATING TABLES**

mysql> CREATE TABLE branch(BNAME varchar(20)primary key,CITY varchar(20)not null CHECK(CITY IN('nagpur','delhi','bangalore','bombay')));

Query OK, 0 rows affected (1.08 sec)

mysql> CREATE TABLE customer(CNAME varchar(15)primary key,CITY varchar(20)not null);

Query OK, 0 rows affected (0.23 sec)

mysql> CREATE TABLE deposit(ACTNO varchar(20)primary key,CNAME varchar(15),foreign key(CNAME)REFERENCES customer(CNAME),BNAME varchar(20),foreign key(BNAME)REFERENCES branch(BNAME),amount varchar(5)not null);

Query OK, 0 rows affected (0.66 sec)

mysql> CREATE TABLE borrow(NOANNO varchar(8)primary key,AMOUNT varchar(6)not null,CNAME varchar(15),foreign key(CNAME)REFERENCES customer(CNAME),BNAME varchar(20),foreign key(BNAME)REFERENCES branch(BNAME));

Query OK, 0 rows affected (0.49 sec)

**INSERTION OF VALUES**

Branch

mysql> INSERT INTO branch VALUES('VRCE','nagpur');

Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO branch VALUES('AJNI','nagpur');

Query OK, 1 row affected (0.07 sec)

mysql> INSERT INTO branch VALUES('KAROLBAGH','delhi');

Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO branch VALUES('CHANDNI','delhi');

Query OK, 1 row affected (0.10 sec)

mysql> INSERT INTO branch VALUES('DHARAMPETH','nagpur');

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO branch VALUES('MG ROAD','bangalore');

Query OK, 1 row affected (0.09 sec)

mysql> INSERT INTO branch VALUES('ANDHERI','bombay');

Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO branch VALUES('NEHRU PALACE','delhi');

Query OK, 1 row affected (0.08 sec)

mysql> INSERT INTO branch VALUES('POWAI','bombay');

Query OK, 1 row affected (0.06 sec)

Customer

mysql> INSERT INTO customer VALUES('ANIL','CALCUTTA');

Query OK, 1 row affected (0.32 sec)

mysql> INSERT INTO customer VALUES('SUNIL','DELHI');

Query OK, 1 row affected (0.07 sec)

mysql> INSERT INTO customer VALUES('MEHUL','BARODA');

Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO customer VALUES('MADHURI','PATNA');

Query OK, 1 row affected (0.08 sec)

mysql> INSERT INTO customer VALUES('MANDAR','NAGPUR');

Query OK, 1 row affected (0.07 sec)

mysql> INSERT INTO customer VALUES('PRAMOD','NAGPUR');

Query OK, 1 row affected (0.08 sec)

mysql> INSERT INTO customer VALUES('SANDIP','SURAT');

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO customer VALUES('SHIVANI','BOMBAY');

Query OK, 1 row affected (0.09 sec)

mysql> INSERT INTO customer VALUES('KRANTI','BOMBAY');

Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO customer VALUES('NAREN','BOMBAY');

Query OK, 1 row affected (0.04 sec)

Deposit

mysql> INSERT INTO deposit VALUES('D100','ANIL','VRCE');

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> INSERT INTO deposit VALUES('D100','ANIL','VRCE','1000');

Query OK, 1 row affected (0.12 sec)

mysql> INSERT INTO deposit VALUES('D102','SUNIL','AJNI','500');

Query OK, 1 row affected (0.08 sec)

mysql> INSERT INTO deposit VALUES('D103','MEHUL','KAROLBAGH','3500');

Query OK, 1 row affected (0.07 sec)

mysql> INSERT INTO deposit VALUES('D104','MADHURI','CHANDNI','1200');

Query OK, 1 row affected (0.25 sec)

mysql> INSERT INTO deposit VALUES('D105','PRAMOD','MG ROAD','3000');

Query OK, 1 row affected (0.10 sec)

mysql> INSERT INTO deposit VALUES('D106','SANDIP','ANDHERI','2000');

Query OK, 1 row affected (0.10 sec)

mysql> INSERT INTO deposit VALUES('D107','SHIVANI','VRCE','1000');

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO deposit VALUES('D108','KRANTI','NEHRU PALACE','5000');

Query OK, 1 row affected (0.16 sec)

mysql> INSERT INTO deposit VALUES('D109','ANIL','POWAI','7000');

Query OK, 1 row affected (0.06 sec)

Borrow

mysql> INSERT INTO borrow VALUES('L201','1000','ANIL','VRCE');

Query OK, 1 row affected (0.15 sec)

mysql> INSERT INTO borrow VALUES('L206','5000','MEHUL','AJNI');

Query OK, 1 row affected (0.08 sec)

mysql> INSERT INTO borrow VALUES('L311','3000','SUNIL','DHARAMPETH');

Query OK, 1 row affected (0.06 sec)

mysql> INSERT INTO borrow VALUES('L321','2000','MADHURI','ANDHERI');

Query OK, 1 row affected (0.07 sec)

mysql> INSERT INTO borrow VALUES('L371','8000','PRAMOD','VRCE');

Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO borrow VALUES('L481','3000','KRANTI','NEHRU PALACE');

Query OK, 1 row affected (0.09 sec)

**2.SELECTING DATE FROM SINGLE TABLE**

**Branch**

mysql> SELECT\*FROM branch;

+--------------+-----------+

| BNAME | CITY |

+--------------+-----------+

| AJNI | nagpur |

| ANDHERI | bombay |

| CHANDNI | delhi |

| DHARAMPETH | nagpur |

| KAROLBAGH | delhi |

| MG ROAD | bangalore |

| NEHRU PALACE | delhi |

| POWAI | bombay |

| VRCE | nagpur |

+--------------+-----------+

9 rows in set (0.07 sec)

**customer**

mysql> SELECT\*FROM customer;

+---------+----------+

| CNAME | CITY |

+---------+----------+

| ANIL | CALCUTTA |

| KRANTI | BOMBAY |

| MADHURI | PATNA |

| MANDAR | NAGPUR |

| MEHUL | BARODA |

| NAREN | BOMBAY |

| PRAMOD | NAGPUR |

| SANDIP | SURAT |

| SHIVANI | BOMBAY |

| SUNIL | DELHI |

+---------+----------+

10 rows in set (0.00 sec)

**Deposit**

mysql> SELECT\*FROM deposit;

+-------+---------+--------------+--------+

| ACTNO | CNAME | BNAME | amount |

+-------+---------+--------------+--------+

| D100 | ANIL | VRCE | 1000 |

| D102 | SUNIL | AJNI | 500 |

| D103 | MEHUL | KAROLBAGH | 3500 |

| D104 | MADHURI | CHANDNI | 1200 |

| D105 | PRAMOD | MG ROAD | 3000 |

| D106 | SANDIP | ANDHERI | 2000 |

| D107 | SHIVANI | VRCE | 1000 |

| D108 | KRANTI | NEHRU PALACE | 5000 |

| D109 | ANIL | POWAI | 7000 |

+-------+---------+--------------+--------+

9 rows in set (0.00 sec)

**Borrow**

mysql> SELECT\*FROM borrow;

+--------+--------+---------+--------------+

| NOANNO | AMOUNT | CNAME | BNAME |

+--------+--------+---------+--------------+

| L201 | 1000 | ANIL | VRCE |

| L206 | 5000 | MEHUL | AJNI |

| L311 | 3000 | SUNIL | DHARAMPETH |

| L321 | 2000 | MADHURI | ANDHERI |

| L371 | 8000 | PRAMOD | VRCE |

| L481 | 3000 | KRANTI | NEHRU PALACE |

+--------+--------+---------+--------------+

6 rows in set (0.00 sec)

mysql> SELECT ACTNO,amount FROM deposit;

+-------+--------+

| ACTNO | amount |

+-------+--------+

| D100 | 1000 |

| D102 | 500 |

| D103 | 3500 |

| D104 | 1200 |

| D105 | 3000 |

| D106 | 2000 |

| D107 | 1000 |

| D108 | 5000 |

| D109 | 7000 |

+-------+--------+

9 rows in set (0.04 sec)

mysql> SELECT ACTNO,CNAME FROM deposit;

+-------+---------+

| ACTNO | CNAME |

+-------+---------+

| D100 | ANIL |

| D109 | ANIL |

| D108 | KRANTI |

| D104 | MADHURI |

| D103 | MEHUL |

| D105 | PRAMOD |

| D106 | SANDIP |

| D107 | SHIVANI |

| D102 | SUNIL |

+-------+---------+

9 rows in set (0.04 sec)

mysql> SELECT CNAME FROM customer;

+---------+

| CNAME |

+---------+

| ANIL |

| KRANTI |

| MADHURI |

| MANDAR |

| MEHUL |

| NAREN |

| PRAMOD |

| SANDIP |

| SHIVANI |

| SUNIL |

+---------+

10 rows in set (0.00 sec)

mysql> SELECT BNAME FROM branch;

+--------------+

| BNAME |

+--------------+

| AJNI |

| ANDHERI |

| CHANDNI |

| DHARAMPETH |

| KAROLBAGH |

| MG ROAD |

| NEHRU PALACE |

| POWAI |

| VRCE |

+--------------+

9 rows in set (0.00 sec)

mysql> SELECT CNAME FROM borrow;

+---------+

| CNAME |

+---------+

| ANIL |

| KRANTI |

| MADHURI |

| MEHUL |

| PRAMOD |

| SUNIL |

+---------+

6 rows in set (0.00 sec)

mysql> SELECT CNAME FROM customer WHERE CITY="NAGPUR";

+--------+

| CNAME |

+--------+

| MANDAR |

| PRAMOD |

+--------+

2 rows in set (0.00 sec)

mysql> SELECT CNAME FROM deposit WHERE amount>4000;

+--------+

| CNAME |

+--------+

| KRANTI |

| ANIL |

+--------+

2 rows in set (0.05 sec)

mysql> SELECT ADATE FROM deposit WHERE CNAME="ANIL";

+------------+

| ADATE |

+------------+

| 0000-00-00 |

| 0000-00-00 |

+------------+

2 rows in set (0.03 sec)

mysql> SELECT BNAME FROM branch WHERE CITY="BOMBAY";

+---------+

| BNAME |

+---------+

| ANDHERI |

| POWAI |

+---------+

2 rows in set (0.00 sec)

mysql> SELECT CNAME FROM borrow WHERE NOANNO="L205";

Empty set (0.08 sec)

mysql> SELECT CNAME FROM deposit WHERE BNAME="VRCE";

+---------+

| CNAME |

+---------+

| ANIL |

| SHIVANI |

+---------+

2 rows in set (0.03 sec)

mysql> SELECT BNAME FROM branch WHERE CITY="DELHI"

-> ;

+--------------+

| BNAME |

+--------------+

| CHANDNI |

| KAROLBAGH |

| NEHRU PALACE |

+--------------+

3 rows in set (0.00 sec)

mysql> select CNAME FROM deposit WHERE ADATE="1991-03-01";

+-------+

| CNAME |

+-------+

| ANIL |

+-------+

1 row in set (0.00 sec)

mysql> select ACTNO,amount from deposit where ADATE="1996-11-17"and"1996-03-07";

Empty set, 1 warning (0.00 sec)

mysql> select CITY from branch where BNAME="KAROLBAGH";

+-------+

| CITY |

+-------+

| delhi |

+-------+

1 row in set (0.03 sec)

**3.DDL COMMANDS**

mysql> create table EMPLOYEE(empno varchar(5)primary key,ename varchar(25)not null,hiredatedate,salary varchar(5)not null,commission varchar(5)not null);

Query OK, 0 rows affected (1.20 sec)mysql> create table EMPLOYEE(empno varchar(5)primary key,ename varchar(25)not null,hiredatedate,salary varchar(5)not null,commission varchar(5)not null);

Query OK, 0 rows affected (1.20 sec)

mysql>desc EMPLOYEE;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| empno | varchar(5) | NO | PRI | NULL | |

| ename | varchar(25) | NO | | NULL | |

| hiredate | date | YES | | NULL | |

| salary | varchar(5) | NO | | NULL | |

| commission | varchar(5) | NO | | NULL | |

+------------+-------------+------+-----+---------+-------+

5 rows in set (0.35 sec)

mysql> insert into EMPLOYEE values('101','ramesh','1980-01-17','5000','500');

Query OK, 1 row affected (0.13 sec)

mysql> insert into EMPLOYEE values('102','ajay','1985-07-05','5000','500');

Query OK, 1 row affected (0.07 sec)

mysql> insert into EMPLOYEE values('103','ravi','1981-08-12','1500','700');

Query OK, 1 row affected (0.06 sec)

mysql> insert into EMPLOYEE values('104','nikesh','1983-03-03','3000','700');

Query OK, 1 row affected (0.08 sec)

mysql> insert into EMPLOYEE values('105','ravi','1985-07-05','3000','600');

Query OK, 1 row affected (0.04 sec)

mysql> select\*from EMPLOYEE;

+-------+--------+------------+--------+------------+

| empno | ename |hiredate | salary | commission |

+-------+--------+------------+--------+------------+

| 101 | ramesh | 1980-01-17 | 5000 | 500 |

| 102 | ajay | 1985-07-05 | 5000 | 500 |

| 103 | ravi | 1981-08-12 | 1500 | 700 |

| 104 | nikesh | 1983-03-03 | 3000 | 700 |

| 105 | ravi | 1985-07-05 | 3000 | 600 |

+-------+--------+------------+--------+------------+

5 rows in set (0.06 sec)

**Modify table structure:**

Adding new column

mysql> alter table EMPLOYEE add salvarchar(7);

Query OK, 0 rows affected (1.64 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql>desc EMPLOYEE;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| empno | varchar(5) | NO | PRI | NULL | |

| ename | varchar(25) | NO | | NULL | |

| hiredate | date | YES | | NULL | |

| salary | varchar(5) | NO | | NULL | |

| commission | varchar(5) | NO | | NULL | |

| sal | varchar(7) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

6 rows in set (0.01 sec)

**Dropping a column**

mysql> alter table EMPLOYEE drop column sal;

Query OK, 0 rows affected (1.43 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql>desc EMPLOYEE;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| empno | varchar(5) | NO | PRI | NULL | |

| ename | varchar(25) | NO | | NULL | |

| hiredate | date | YES | | NULL | |

| salary | varchar(5) | NO | | NULL | |

| commission | varchar(5) | NO | | NULL | |

+------------+-------------+------+-----+---------+-------+

1. rows in set (0.07 sec)

**Modifying existing column**

mysql> alter table EMPLOYEE modify enamevarchar(15);

Query OK, 5 rows affected (1.23 sec)

Records: 5 Duplicates: 0 Warnings: 0

mysql>desc EMPLOYEE;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| empno | varchar(5) | NO | PRI | NULL | |

| ename | varchar(15) | YES | | NULL | |

| hiredate | date | YES | | NULL | |

| salary | varchar(5) | NO | | NULL | |

| commission | varchar(5) | NO | | NULL | |

+------------+-------------+------+-----+---------+-------+

5 rows in set (0.23 sec)

**Rename the table name**

mysql> alter table EMPLOYEE rename EMP2;

Query OK, 0 rows affected (0.31 sec)

**Truncating table**

mysql> truncate table EMP2;

Query OK, 0 rows affected (0.51 sec)

**Destroting table**

mysql> drop table EMP2;

Query OK, 0 rows affected (0.35 sec)

**Create table stud:**

mysql> create table stud(sname varchar(20)primary key,rollno varchar(10)not null,dob date not null);

Query OK, 0 rows affected (0.46 sec)

mysql>desc stud;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| sname | varchar(20) | NO | PRI | NULL | |

| rollno | varchar(10) | NO | | NULL | |

| dob | date | NO | | NULL | |

+--------+-------------+------+-----+---------+-------+

3 rows in set (0.18 sec)

**4) create table and use check constrain:**

mysql> Create table student (regno int, mark int(3) constraint b check (mark >=0 and mark <=100));

Query OK, 0 rows affected, 1 warning (1.40 sec)

mysql>desc student;

+-------+------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+------+------+-----+---------+-------+

| regno | int | YES | | NULL | |

| mark | int | YES | | NULL | |

+-------+------+------+-----+---------+-------+

2 rows in set (0.30 sec)

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

**5)create table cust:**

mysql> CREATE TABLE cust(custid varchar(6) UNIQUE, name varchar(10));

Query OK, 0 rows affected (0.47 sec)

mysql>desccust;

+--------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------+-------------+------+-----+---------+-------+

| custid | varchar(6) | YES | UNI | NULL | |

| name | varchar(10) | YES | | NULL | |

+--------+-------------+------+-----+---------+-------+

2 rows in set (0.14 sec)