**MySQL Hands-on**

a)       Create the table PROGRAMMER with the given information using SQL CREATE TABLE command:

CREATE TABLE PROGRAMMER (  
    EmpNo int,

ProjId varchar(255),  
    LastName varchar(255),  
    FirstName varchar(255),

HireDate Date,

Language varchar(255),  
    TaskNo int,

Privilege varchar(255)

);

**b)      Insert the following data into the PROGRAMMER table:**

INSERT INTO PROGRAMMER(EmpNo,LastName,FirstName,HireDate,ProjId,Language,TaskNo,Privilege)

VALUES (201,Gupta,Saurav,1/1/95,NPR,VB,52,Secret);

INSERT INTO PROGRAMMER(EmpNo,LastName,FirstName,HireDate,ProjId,Language,TaskNo,Privilege)

VALUES (390,Ghosh,Pinky,1/05/93,KCW,Java,11,Top Secret);

INSERT INTO PROGRAMMER(EmpNo,LastName,FirstName,HireDate,ProjId,Language,TaskNo,Privilege)

VALUES (789,Agarwal,Praveen,08/31/98,Rnc,VB,11,Secret);

INSERT INTO PROGRAMMER(EmpNo,LastName,FirstName,HireDate,ProjId,Language,TaskNo,Privilege)

VALUES (134,Chaudhury,Supriyo,07/15/95,TIPPS,C++,52,Secret);

INSERT INTO PROGRAMMER(EmpNo,LastName,FirstName,HireDate,ProjId,Language,TaskNo,Privilege)

VALUES (896,Jha,Ranjit,06/15/97,KCW,Java,10,Top Secret);

INSERT INTO PROGRAMMER(EmpNo,LastName,FirstName,HireDate,ProjId,Language,TaskNo,Privilege)

VALUES (345,John,Peter,11/15/99,TIPPS,Java,52, );

INSERT INTO PROGRAMMER(EmpNo,LastName,FirstName,HireDate,ProjId,Language,TaskNo,Privilege)

VALUES (563,Anderson,Andy,08/15/94,NITTS,C++,89,confidential);

**c)       Create a table WEATHER with following data:**

CREATE TABLE WEATHER (  
    City varchar(255),

State varchar(255),  
    High int,  
    Low int

);

INSERT INTO WEATHER (City,State,High,Low)

VALUES (Calcutta, west Bengal, 105, 90);

INSERT INTO WEATHER (City, State, High, Low)

VALUES (Trivandrum,Kerala, 101, 92);

INSERT INTO WEATHER (City, State, High, Low)

VALUES (Mumbai,Maharashtra, 88, 69);

INSERT INTO WEATHER (City, State, High, Low)

VALUES (Banglore,Karnataka, 77, 60);

INSERT INTO WEATHER (City, State, High, Low)

VALUES (New Delhi, , 80, 72);

**d)      Create a table BOOKS with the following data**

CREATE TABLE BOOKS (  
    BookId int,

Title varchar(255),

TopicId varchar(255),

Publisher Name varchar(255),

Place of Publication varchar(255),

Price int,

PurchaseDate Date,

ShelfNo varchar(255)

);

e)       Write SQL queries to:

         i.            Saurav Gupta is assigned a different project with id NITTS and he would work with C++ now. Update this change in the PROGRAMMER table.

         i.            The books on DBMS are shifted to shelf with number S10. Please update this detail in BOOKS table.

       ii.            Supriyo Chaudhury has resigned his job. Incorporate this change in the table PROGRAMMER.

      iii.            A new column to state the nature of the climate with either of the value (rainy, cloudy, sunny, snow) is to be added in the WEATHER Table.

      iv.            Delete the table WEATHER from database.

Queries:

i UPDATE PROGRAMMER SET ProjId=’NITTS’, Language=’c++’ WHERE EmpNo= 201

ii UPDATE BOOKS SET ShelfNo= ‘210’ WHERE Title=’DBMS’

iii DELETE FROM PROGRAMMER WHERE EmpId=134

iv ALTER TABLE WEATHER

ADD Climate varchar(255);

V DROP TABLE WEATHER

**Complete the following exercise:**

**f)        Create a following tables**

CREATE TABLE CUSTOMER (  
    CUSTId int PRIMARY KEY,

FNAME varchar(255),

LNAME varchar(255),

ADDRESS varchar(255),

PHONENO int NOT NULL,

CITY varchar(255),

COUNTRY varchar(255),

DATEFIRSTPURCHASED Date,

SUPPLIERID inT FOREIGN KEY

);

INSERT INTO CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1001, Das, Jeyaseelan, ‘119, park Avenue, II street’, 9841093428, Coimbatore, India, 10-jan-2004, 1);

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (2001,Gopi, Govindraj, ‘241, I floor, Kamaraj street, Madippakkam’, 9444124590, Chennai, India, 25-mar-2005, 4);

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1201, Dilip, Kishore, ‘43, II Avenue, Anna Nagar’, 9997234534, Bangalore,   
India, 20-aug-2004, 2 );

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1300, Aanand, Chowdhury, ‘42/1 sector 1, II Street’, 9841054348, Bangalore, India, 15-may-2005, 2);

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1220, Chandra, Nagarajan, ‘83, lal bagh, 98410672356, Bangalore, India, 12-feb-2006, 4);

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1221, Abhishek, Kumar, ‘13,kishori park,’, 94447623901, Chennai, India, 15-may-2004, 1);

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1320, Nikhil, Pandit, ‘218, alwaanya street’, 94448923091, Salem, India 21-apr-2006, 3);

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1222, Meenu, Monica, ‘C11, church road’, 98410563421, Trichy, India,   
30-aug-2004,1);

CUSTOMER(CUSTID, FNAME,LName,ADDRESS,PHONENO,CITY,COUNTRY,DATEFIRSTPURCHASED,SUPPLIERID)

VALUES (1225, Pavan, Kumar, ‘128/A, North Mada Street’, 99934782103, maduari, India, 18-aug-2004, 4);

**SUPPLIER Table:**

CREATE TABLE SUPPLIER (

SUPPLIERID int PRIMARY KEY,  
    SNAME varchar(255),

SCITY varchar(255),  
    SPHONE int NOT NULL,  
    EMAIL varchar(255) UNIQUE

);

INSERT INTO SUPPLIER(SUPPLIERID, SNAME, SCITY, SPHONE, EMAIL)

VALUES (1, Dilip, Chennai, 8999900000, [dilip@abc.co.in](mailto:dilip@abc.co.in));

INSERT INTO SUPPLIER(SUPPLIERID, SNAME, SCITY, SPHONE, EMAIL)

VALUES (2, Tarun, Madurai, 8999911111, [tarun@xyz.com](mailto:tarun@xyz.com));

INSERT INTO SUPPLIER(SUPPLIERID, SNAME, SCITY, SPHONE, EMAIL)

VALUES (1, Naresh, Coimbatore, 8999922222, [g.naresh@xyzl.com](mailto:g.naresh@xyzl.com));

INSERT INTO SUPPLIER(SUPPLIERID, SNAME, SCITY, SPHONE, EMAIL)

VALUES (1, Ganesan, Trichy, 8999933333, [Ganesan\_83@ijk.com](mailto:Ganesan_83@ijk.com));

**ORDERS Table :**

**CREATE TABLE ORDERS (**

ORDERID int PRIMARY KEY,

ORDERDATE Date,

CUSTID int,

QUANTITY int CHECK (QUANTITY>0),

ITEMID int FOREIGN KEY

);

INSERT INTO ORDERS(ORDERID, ORDERDATE, CUSTID, QUANTITY, ITEMID)

VALUES (1, 12-JAN-2004, 1001,30,25);

INSERT INTO ORDERS(ORDERID, ORDERDATE, CUSTID, QUANTITY, ITEMID)

VALUES (2, 06-MAY-2005, 1202,38,24);

INSERT INTO ORDERS(ORDERID, ORDERDATE, CUSTID, QUANTITY, ITEMID)

VALUES (3, 16-DEC-2006, 1220,10,22);

INSERT INTO ORDERS(ORDERID, ORDERDATE, CUSTID, QUANTITY, ITEMID)

VALUES (4, 21-MAY-2004, 1233,12,21);

**ITEMS Table :**

CREATE TABLE ITEMS (

ITEMID int PRIMARY KEY,

ITEMNAME varchar(255) NOT NULL,

SUPPLIERID int FOREIGN KEY,

MINQTY int NOT NULL,

Price int(5,2)

);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (20, Pears Soap, 4, 7, 20, 30.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (21, V.V.D. Coconut oil 200 ml,2, 8, 15, 79.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (22, Ponds powder 400g, 3, 6, 25, 106.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (23, Reynolds pen- blue, 1, 10, 30, 15.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (24, Reynolds pen- black, 1, 10, 30, 16.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (25, Mysore sandal soap, 4, 7, 25, 25.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (26, Fair & lovely cream- 50g , 3, 5, 15, 55.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (27, Rexono deo spary, 2, 5, 20, 100.00);

INSERT INTO ITEMS(ITEMID, ITEMNAME, SUPPLIERID, MINQTY, MAXQTY, Price)

VALUES (28, Dove soap, 4, 7, 15, 85.00);

**g)       Write SQL queries to**

  v.            Display all customers from Chennai.

      vi.            Display the details of all customers who purchased from the supplier 2.

    vii.            Display CUSTID, FNAME, LNAME of all customers whose purchase date is after January 2005.

  viii.            Display the details of all suppliers who are from location Coimbatore.

      ix.            Display the details of all suppliers whose name stars with G.

       x.            Display the details of all customers, who do not have the alphabet e in their LNAME.

      xi.            Display the details of the entire customer whose first date of purchase is in 2006 and arrange it in descending order.

    xii.            Display the details of all the orders where the quantity is less than 35.

  xiii.            Display the details of the items supplied by supplier 4.

  xiv.            Display the details of all items where SUPPLIERID is 3 and the MINQTY is greater than 7 order by ITEMID.

**QUERIES:**

v. SELECT FNAME,LNAME FROM CUSTOMER WHERE CITY =’Chennai’

vi. SELECT \* FROM SUPPLIER WHERE SUPPLIERID = 2

vii SELECT CUSTID,FNAME,LNAME FROM CUSTOMERS WHERE DATEFIRSTPURCHASED > JAN 2005

viii SELECT \* FROM SUPPLIER WHERE SCITY = ‘COIMBATORE’

ix SELECT SNAME FROM SUPPLIER WHERE SNAME LIKE ‘G%’

ORDER BY SNAME

x SELECT \* FROM CUSTOMERS WHERE LNAME NOT LIKE ‘e%’

xi SELECT \* FROM CUSTOMER WHERE DATEFIRSTPURCHASED = 2006 ORDER BY CUSTOMER DESC

xii SELECT \* FROM ORDERS WHERE QUANTITY < 35

xiii SELECT\* FROM ITEMS WHERE SUPPLIERID = 4

XIV SELECT \* FROM ITEMS WHERE SUPPLIERID = 3 AND MINQTY > 7 ORDER BY ITEMID