**HANDS-ON**

**Program 1& 2 :**

CREATE TABLE PROGRAMMER ( EmpNo numeric(5) Unique, LastName varchar(30) not null, FirstName varchar(30) not null, HireDate date,ProjID varchar(50) not null, Language varchar(15) , TaskNo numeric(2) , Privilege varchar(25) );

INSERT INTO PROGRAMMER( EmpNo, LastName, FirstName, HireDate, ProjID, Language, TaskNo, Privilege) VALUES(201,'Gupta','Saurav','1995-01-01','NPR','VB',52,'Secret');

INSERT INTO PROGRAMMER VALUES(390,'Ghosh','Pinky','1993-01-05','KCW','Java',11,'Top Secret');

INSERT INTO PROGRAMMER VALUES(789,'Agarwal','Praveen','1998-08-31','Rnc','VB',11,'Secret');

INSERT INTO PROGRAMMER VALUES(134,'Chaudhury','Supriyo','1995-07-15','TIPPS','C++',52,' Secret');

INSERT INTO PROGRAMMER VALUES(896,'Jha','Ranjit','1997-06-15','KCW','Java',10,'Top Secret');

INSERT INTO PROGRAMMER VALUES(345,'John','Peter','1999-11-15','TIPPS','Java',52,' ');

INSERT INTO PROGRAMMER VALUES(563,'Anderson','Andy','1994-08-15','NITTS','C++',89,'Confidential');

SELECT \* FROM PROGRAMMER;

UPDATE PROGRAMMER set ProjID='NITTS' , Language='C++' WHERE LastName='Gupta' , FirstName='Saurav';

DELETE FROM PROGRAMMER WHERE LastName= ‘Chaudhury’ , FirstName=’Supriyo’;

SELECT \* FROM PROGRAMMER;

**Program3:**

CREATE TABLE WEATHER(City varchar(20),State varchar(20), High numeric,Low numeric);

/\* Create few records in this table \*/

INSERT INTO WEATHER VALUES('Calcutta','West Bengal',105,90);

INSERT INTO WEATHER VALUES('Trivandrum','Kerala',101,92);

INSERT INTO WEATHER VALUES('Mumbai','Maharashtra',88,69);

INSERT INTO WEATHER VALUES('Bangalore','Karnataka',77,60);

INSERT INTO WEATHER VALUES('New Delhi',' ',80,72);

ALTER TABLE WEATHER ADD Natureofclimate varchar(20);

SELECT \* FROM WEATHER;

UPDATE Weather SET NatureOfClimate = 'Rainy' where Low >= 60 and Low <=70;

UPDATE Weather SET NatureOfClimate = 'Snow' where Low >= 71 and Low <=80;

UPDATE Weather SET NatureOfClimate = 'Cloudy' where Low >= 81 and Low <=90;

UPDATE Weather SET NatureOfClimate = 'Sunny' where Low >= 91 and Low <=100;

Drop TABLE WEATHER;

**Program 4:**

CREATE TABLE BOOKS(BookId numeric(5), Title varchar(20),TopicId varchar(10), PublisherName varchar(20), PlaceofPublication varchar(10), Price numeric, PurchaseDate date, ShelfNo varchar);

/\* Create few records in this table \*/

INSERT INTO BOOKS VALUES(8293, 'DBMS','DB1','Prentice Hall','Mumbai', 255, '1/1/95', 'S11');

INSERT INTO BOOKS VALUES(5645, 'DBMS','DB1','Pearson Education','Mumbai',655,'1/05/93','S12');

INSERT INTO BOOKS VALUES(6565,'C','C1','TMH','Mumbai',840,'08/31/98','S66');

INSERT INTO BOOKS VALUES(6567,'C++','Cplus1','ABC Publishers','Delhi',300,'07/15/95','S77');

INSERT INTO BOOKS VALUES(4576,'JAVA','JAVA1','Guru Govind Publications','Delhi',500,'06/15/97','S87');

INSERT INTO BOOKS VALUES(3433,'OOPS','OOPS1','Dave Publishers','Pune',600,'11/15/99','S56');

INSERT INTO BOOKS VALUES(4655,'SAD','SAD1','Sajan Publications','cochin',700,'08/15/94','S76');

/\* Display all the records from the table \*/

SELECT \* FROM BOOKS;

UPDATE BOOKS SET ShelfNo ='S10' where Title='DMBS';

**Program 5:**

create table Customer (CustId int primary key, FName varchar(30), LName varchar(30), Address varchar(50), PhoneNo numeric(10) not null, City varchar(20), Country varchar(20), DateFirstPurchased date, SupplierId int, foreign key(SupplierId) references Supplier(SupplierId));

insert into Customer (CustId, FName, LName, Address, PhoneNo, City, Country, DateFirstPurchased, SupplierId) values

(1001, 'Das', 'Jayaseelan', '119,park Avenue, II street', 9841093428, 'Coimbatore', 'India', '2004-01-10' , 1),

(2001, 'Gopi', 'Govindraj', '241, I floor, Kamaraj street, Madippakkam', 9444124590, 'Chennai', 'India', '2005-03-25' , 4),

(1201, 'Dilip', 'Kishore', '43,II Avenue, Anna Nagar', 9997234534, 'Bangalore', 'India', '2004-08-20', 2),

(1300, 'Anand', 'Chowdhury', '42/1 sector 1, II street', 9841054348, 'Bangalore', 'India', '2005-05-15', 2),

(1220, 'Chandra', 'Nagarajan', '83, lal bagh', 98410672356, 'Bangalore', 'India', '2006-02-12', 4),

(1221, 'Abhishek', 'Kumar', '13, kishori park', 94447623901, 'Chennai' , 'India' , '2004-05-15', 1),

(1320, 'Nikhil', 'Pandit', '218, alwanya street', 94448923091, 'Salem', 'India', '2006-04-21', 3),

(1222, 'Meenu', 'Monica', 'C11, church road', 98410563421, 'Trichy', 'India', '2004-08-30', 1),

(1225, 'Pavan', 'Kumar', '128/A, North Mada Street', 99934782103, 'Madurai', 'India', '2004-08-18',4);

create table Supplier(SupplierId int primary key, SName char(30), SCity varchar(30), SPhone numeric(10) not null, Email varchar(50) unique);

insert into Supplier values(1, 'Dilip', 'Chennai', 8999900000, 'dilip@abc.co.in');

insert into Supplier values(2, 'Tarun', 'Madurai', 8999911111, 'tarun@xyz.com');

insert into Supplier values(3, 'Naresh', 'Coimbatore', 8999922222, 'g.naresh@xyz.com');

insert into Supplier values(4, 'Ganesan', 'Trichy', 8999933333, 'Ganesan\_83@ijk.com');

create table Items(ItemId numeric primary key, ItemName varchar(35) not null, foreign key(SupplierId) references Supplier(SupplierId), MinQTY numeric not null, MaxQTY numeric not nulll, Price numeric(5,2));

insert into Items values (20, 'Pears Soap', 4, 7,20,30.00);

insert into Items values (21, 'V.V.D. Coconut oil 200 ml', 2, 8, 15, 79.00);

insert into Items values (22, 'Ponds powder 400g', 3, 6, 25, 106.00);

insert into Items values (23, 'Reynolds pen- blue', 1, 10, 30, 15.00);

insert into Items values (24, 'Reynolds pen- black', 1, 10, 30, 16.00);

insert into Items values (25, 'Mysore sandal soap', 4, 7, 25, 25.00);

insert into Items values (26, 'Fair & lovely cream - 50g', 3, 5, 15, 55.00);

insert into Items values (27, 'Rexono deo spray', 2, 5, 20, 100.00);

insert into Items values (28, 'Dove soap', 4, 7, 15, 85.00);

CREATE TABLE ORDERS(ORDERID numeric Primary key, ORDERDATE date, CUSTID numeric,Quantity numeric, CHECK (Quantity>0) , Foreign key (ITEMID) references ORDERS(ITEMID));

INSERT INTO ORDERS VALUES(1,'2004-01-12',1001,30,25);

INSERT INTO ORDERS VALUES(2,’2005-05-6',1202,38,24);

INSERT INTO ORDERS VALUES(3,'2006-12-16',1220,10,22);

INSERT INTO ORDERS VALUES(4,'2004-05-21',1233,12,21);

SELECT \* FROM ORDERS;

SELECT \* FROM Customer WHERE city=’Chennai’;

SELECT \* FROM Customer Custid, fname, lname WHERE DateFirstPurchased > ‘2005-01-01’;

SELECT \* FROM Customer WHERE Supplier=2;

SELECT \* FROM Supplier WHERE SCity=’Coimbatore’;

SELECT \* FROM Supplier WHERE SName=’G%’;

SELECT \* FROM Customer WHERE lname=’%e%’;

SELECT \* FROM Customer WHERE DateFirstPurchased >=’2006-01-01’ and DateFirstPurchased <’2006-12-31’ orderby DateFirstPurchased desc;

SELECT \* FROM ORDERS WHERE Quantity >35;

SELECT \* FROM ITEMS WHERE SupplierId=4;

SELECT \* FROM ITEAMS WHERE SupplierId =3 and MinQTY >3 orderby ItemId;