**SQL Exercise**

1. CREATE TABLE PROGRAMMER(

EMPNO NUMERIC(5) PRIMARY KEY,

LASTNAME VARCHAR(30) NOT NULL,

FIRSTNAME VARCHAR(30) NOT NULL,

HIREDATE DATE,

PROJID VARCHAR(5) NOT NULL,

LANGUAGE VARCHAR(15) NOT NULL,

TASKNO NUMERIC(2),

PRIVILEGE VARCHAR(15) NOT NULL

);

SELECT \* FROM PROGRAMMER;

1. CREATE TABLE PROGRAMMER(

EMPNO INT,

LASTNAME VARCHAR(30) NOT NULL,

FIRSTNAME VARCHAR(30) NOT NULL,

HIREDATE DATE,

PROJID VARCHAR(10) NOT NULL,

LANGUAGE VARCHAR(15) NOT NULL,

TASKNO INT,

PRIVILEGE VARCHAR(15) NOT NULL

);

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(EMPNO,LASTNAME,FIRSTNAME,HIREDATE,PROJID,LANGUAGE,TASKNO,PRIVILEGE)VALUES('390','GHOSHA','PINKY','1993-05-01','KCW','JAVA','11','TOP SECRET');

INSERT INTO PROGRAMMER(EMPNO,LASTNAME,FIRSTNAME,HIREDATE,PROJID,LANGUAGE,TASKNO,PRIVILEGE)VALUES('789','AGARWAL','PRAVEEN','1998-08-31','RNC','VB','11','SECRET');

INSERT INTO PROGRAMMER(EMPNO,LASTNAME,FIRSTNAME,HIREDATE,PROJID,LANGUAGE,TASKNO,PRIVILEGE)VALUES('134','CHAUDHURY','SUPRIYO','1995-07-15','TIPPS','C++','52','SECRET');

INSERT INTO PROGRAMMER(EMPNO,LASTNAME,FIRSTNAME,HIREDATE,PROJID,LANGUAGE,TASKNO,PRIVILEGE)VALUES('896','JHA','RANJIT','1997-06-15','KCW','JAVA','10','TOP SECRET');

INSERT INTO PROGRAMMER(EMPNO,LASTNAME,FIRSTNAME,HIREDATE,PROJID,LANGUAGE,TASKNO,PRIVILEGE)VALUES('345','JOHN','PETER','1999-11-15','TIPPS','JAVA','52','SECRET');

INSERT INTO PROGRAMMER(EMPNO,LASTNAME,FIRSTNAME,HIREDATE,PROJID,LANGUAGE,TASKNO,PRIVILEGE)VALUES('563','ANDERSON','ANDY','1994-08-15','NITTS','C++','89','CONFIDENTIAL');

SELECT \* FROM PROGRAMMER;

CREATE TABLE WEATHER(

CITY VARCHAR(15) NOT NULL,

STATE VARCHAR(30) NOT NULL,

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('BANGALORE','KARNATAKA','77','60');

INSERT INTO WEATHER(CITY,STATE,HIGH,LOW)VALUES('NEW DELHI','NULL','80','72');

SELECT \* FROM WEATHER;

CREATE TABLE BOOKS(

BOOKID NUMERIC(10),

TITLE VARCHAR(10) NOT NULL,

TOPICID VARCHAR(15) NOT NULL,

PUBLISHERNAME VARCHAR(30) NOT NULL,

PLACEOFPUBLICATION VARCHAR(15) NOT NULL,

PRICE INT,

PURCHASEDATE DATE,

SHELFNO VARCHAR(5)

);

INSERT INTO BOOKS(BOOKID,TITLE,TOPICID,PUBLISHERNAME,PLACEOFPUBLICATION,PRICE,PURCHASEDATE,SHELFNO)VALUES('8293','DBMS','DB1','PRENTICE HALL','MUMBAI',255,'1995-01-01','S11');

INSERT INTO BOOKS(BOOKID,TITLE,TOPICID,PUBLISHERNAME,PLACEOFPUBLICATION,PRICE,PURCHASEDATE,SHELFNO)VALUES('5645','DBMS','DB1','PEARSON EDUCATION','MUMBAI',655,'1993-01-05','S12');

INSERT INTO BOOKS(BOOKID,TITLE,TOPICID,PUBLISHERNAME,PLACEOFPUBLICATION,PRICE,PURCHASEDATE,SHELFNO)VALUES('6565','C','C1','TMHL','MUMBAI',840,'1995-08-31','S66');

INSERT INTO BOOKS(BOOKID,TITLE,TOPICID,PUBLISHERNAME,PLACEOFPUBLICATION,PRICE,PURCHASEDATE,SHELFNO)VALUES('6567','C++','C PLUS1','ABC PUBLISHERS','DELHI',300,'1995-01-01','S77');

INSERT INTO BOOKS(BOOKID,TITLE,TOPICID,PUBLISHERNAME,PLACEOFPUBLICATION,PRICE,PURCHASEDATE,SHELFNO)VALUES('4576','JAVA','JAVA1','GURU GOVIND PUBLICATION','DELHI',500,'1997-01-01','S87');

INSERT INTO BOOKS(BOOKID,TITLE,TOPICID,PUBLISHERNAME,PLACEOFPUBLICATION,PRICE,PURCHASEDATE,SHELFNO)VALUES('3433','OOPS','OOPS1','DAVE PUBLISHERS','PUNE',600,'1999-01-01','S56');

INSERT INTO BOOKS(BOOKID,TITLE,TOPICID,PUBLISHERNAME,PLACEOFPUBLICATION,PRICE,PURCHASEDATE,SHELFNO)VALUES('4655','SAD','SAD1','SAJAN PUBLICATION','COCHIN',700,'1994-01-01','S76');

SELECT \* FROM BOOKS;

UPDATE PROGRAMMER

SET PROJID='NITTS',LANGUAGE='C++'

WHERE LASTNAME='GUPTA';

SELECT \* FROM PROGRAMMER;

UPDATE BOOKS SET SHELFNO='S10' WHERE TITLE='DBMS';

SELECT \* FROM BOOKS WHERE TITLE='DBMS';

DELETE FROM PROGRAMMER WHERE EMPNO=134;

SELECT \* FROM PROGRAMMER;

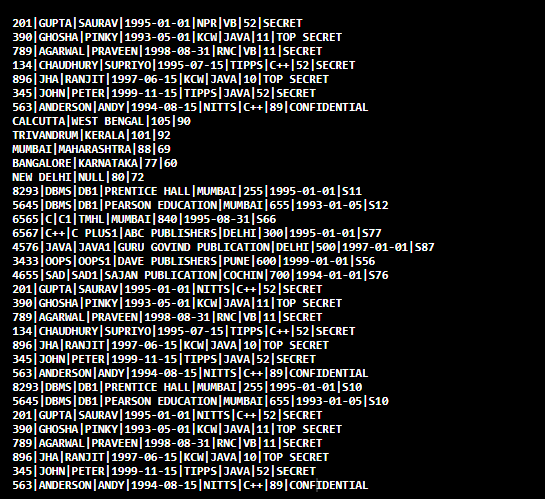
ALTER TABLE WEATHER ADD NATURE VARCHAR(10);

INSERT INTO WEATHER(NATURE)VALUES('RAINY','CLOUDY','SUNNY','SNOW');

DELETE FROM WEATHER;

SELECT \* FROM WEATHER;

**Output:**

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1. create table customer(

custid number PRIMARY KEY,

Fname char(30),

Lname char(30),

address char(50),

phno number not null,

city char(20),

country char(20),

datepur date,

supid number references supplier(supid));

insert into customer values(1001,'das','jeyaseelan','119,park avenue,II street',9841093428,'Coimbatore','India','2004-01-10',1),

(2001,'gopi','govinraj','241, I floor, Kamaraj street, Madippakkam',9444124590,'chennai','india','2005-03-25',4),

(1201,'dilip','kishore','43, II Avenue, Anna Nagar',9997234534,'banglore','india','2005-08-20',2),

(1300,'aanand','chowdhury','42/1 sector 1, II Street',9841054348,'banglore','india','2005-05-15',2),

(1220,'chandra','nagarjan','83,lal bagh',98410672356,'banglore','india','2006-02-12',4),

(1221,'abhishek','kumar','13,kishori park',94447623901,'chennai','india','2004-05-15',1),

(1320,'nikhil','pandit','218, alwaanya 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);

select \* from customer;

create table supplier(

supid number primary key,

sname char(30),

scity char(30),

sphone number not null,

email char(50) unique);

insert into supplier values(1,'dilip','chennai',8999900000,'dilip@abc.co.in'),

(2,'tarun','madurai',8999911111,'tarun@xyz.com'),

(3,'naresh','coimbatore',8999922222,'g.naresh@xyzl.com'),

(4,'Ganesan','trichy',8999933333,'ganesan\_83@ijk.com');

select \* from supplier;

create table orders(

orderid number primary key,

odate date,

custid number,

quan number check(quan>0),

itemid number references items(itemid));

insert into orders values(1,'2004-01-12',1001,30,25),

(2,'2005-05-06',1202,38,24),

(3,'2006-12-16',1220,10,22),

(4,'2004-05-21',1233,12,21);

select \* from orders;

create table items(

itemid number primary key,

iname char(35) not null,

supid number references supplier(supid),

minqty number not null,

maxqty number not null,

price number(5,2));

insert into items values(20,'pears soap',4,7,20,30.00),

(21,'v.v.d.coconut oil 200ml',2,8,15,79.00),

(22,'ponds powder 400g',3,6,25,106.00),

(23,'reynolds pen-blue',1,10,30,15.00),

(24,'reynolds pen-black',1,10,30,16.00),

(25,'mysore sandal soap',4,7,25,25.00),

(26,'fair&lovely cream 50g',3,5,15,55.00),

(27,'rexono deo spray',2,5,20,100.00),

(28,'dove soap',4,7,15,85.00);

select \* from items;

select \* from customer where city='chennai';

select \* from customer where supid=2;

select custid,Fname,Lname from customer where datepur>'2005-01-01';

select \* from supplier where scity='coimbatore';

select \* from supplier where sname like 'G%';

select \* from customer where Lname not like '%e%';

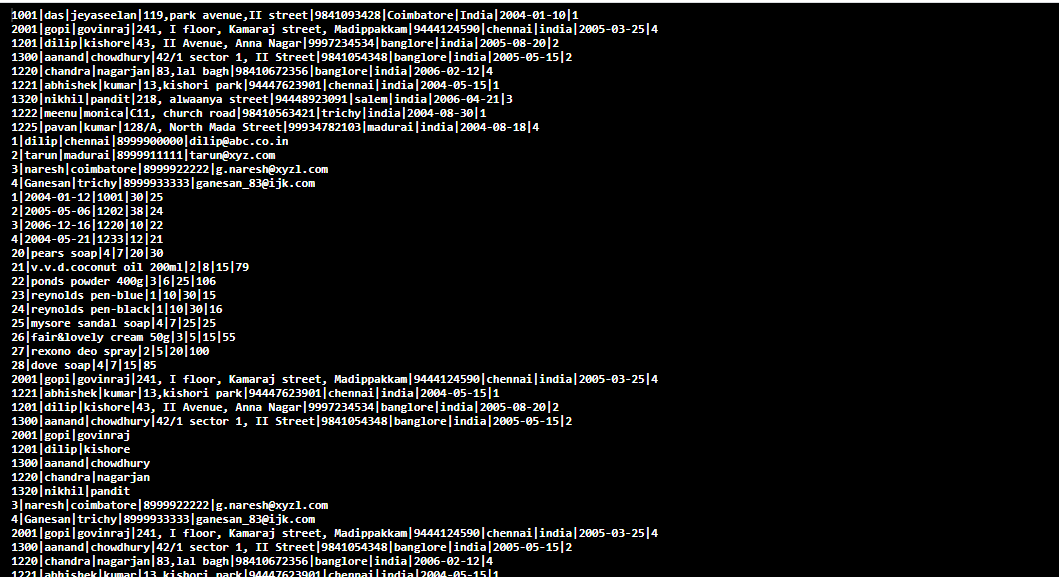
select \* from customer where datepur between '2006-01-01' and '2006-12-31' order by datepur desc;

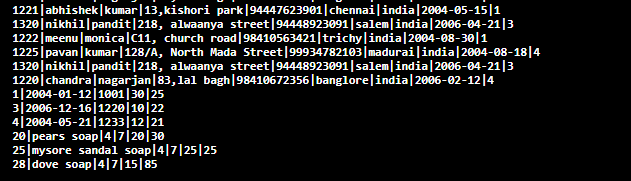
select \* from orders where quan<35;

select \* from items where supid=4;

select \* from items where supid=3 and minqty>7 order by itemid;

**Output:**

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