**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Name: Class:**

**Assignment No.:3 Batch:**

**Ass.Name:View Date:**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**SET A Database Name :- Bank database**

bank=# create table branch

bank-# (bid integer primary key,

bank(# brname char(30),

bank(# brcity char (10));

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "branch\_pkey" for table "branch"

CREATE TABLE

bank=# insert into branch values(101,'Aundh','pune');

INSERT 0 1

bank=# insert into branch values(102,'Deccan','pune');

INSERT 0 1

bank=# insert into branch values(103,'M.G. road','pune');

INSERT 0 1

bank=# insert into branch values(104,'Sadashiv Peth','pune');

INSERT 0 1

bank=# select \* from branch;

bid | brname | brcity

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

101 | Aundh | pune

102 | Deccan | pune

103 | M.G. road | mumbai

104 | Sadashiv Peth | pune

(4 rows)

bank=# create table customer

bank-# (cno integer primary key,

bank(# cname char(20),

bank(# caddr char(35),

bank(# city char(20));

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "customer\_pkey" for table "customer"

CREATE TABLE

bank=# insert into customer values(201,'Vishal','pimpri','pune');

INSERT 0 1

bank=# insert into customer values(202,'Vikas','kalyan','mumbai');

INSERT 0 1

bank=# insert into customer values(203,'Amar','Dadar','mumbai');

INSERT 0 1

bank=# insert into customer values(204,'Ashish','nigdi','pune');

INSERT 0 1

bank=# select \* from customer;

cno | cname |

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

201 | Vishal |

202 | Vikas |

203 | Amar |

204 | Ashish |

(4 rows)

| caddr | city

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

| pimpri | pune

| kalyan | mumbai

| Dadar | mumbai

| nigdi | pune

(4 rows)

bank=# create table loan\_application

bank-# (lno integer primary key,

bank(# lamtrequired integer,

bank(# lamtapproved integer,

bank(# l\_date date);

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "loan\_application\_pkey" for table "loan\_application"

CREATE TABLE

bank=# insert into loan\_application values (301,500000,250000,'07/22/2013');

INSERT 0 1

bank=# insert into loan\_application values (302,30000,8000,'06/16/2014');

INSERT 0 1

bank=# insert into loan\_application values (303,400000,400000,'07/22/2014');

INSERT 0 1

bank=# insert into loan\_application values (304,50000,45000,'09/12/2013');

INSERT 0 1

bank=# insert into loan\_application values (305,60000,60000,'08/12/2013');

INSERT 0 1

bank=# insert into loan\_application values (306,500000,500000,'09/22/2013');

INSERT 0 1

bank=# insert into loan\_application values (307,500000,450000,'09/25/2013');

INSERT 0 1

bank=# select \* from loan\_application;

lno | lamtrequired | lamtapproved | l\_date

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

301 | 500000 | 250000 | 2013-07-22

302 | 30000 | 8000 | 2014-06-16

303 | 400000 | 400000 | 2014-07-22

304 | 50000 | 45000 | 2013-09-12

305 | 60000 | 60000 | 2013-08-12

306 | 500000 | 500000 | 2013-09-22

307 | 500000 | 450000 | 2013-09-25

(7 rows)

bank=# create table bcl

bank-# (bno integer references branch(bid),

bank(# cno integer references customer(cno),

bank(# lno integer references loan\_application(lno));

CREATE TABLE

bank=# insert into bcl values (101,201,301);

INSERT 0 1

bank=# insert into bcl values (101,203,302);

INSERT 0 1

bank=# insert into bcl values (102,202,303);

INSERT 0 1

bank=# insert into bcl values (103,201,304);

INSERT 0 1

bank=# insert into bcl values (102,204,305);

INSERT 0 1

bank=# insert into bcl values (103,202,306);

INSERT 0 1

bank=# insert into bcl values (104,202,307);

INSERT 0 1

bank=# select \* from bcl;

bno | cno | lno

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

101 | 201 | 301

101 | 203 | 302

102 | 202 | 303

103 | 201 | 304

102 | 204 | 305

103 | 202 | 306

104 | 202 | 307

(7 rows)

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**Views**

**1)**

bank=# create or replace view v\_cust\_loan as

select customer.\*,lamtrequired from customer,loan\_application,bcl

bank-# where customer.cno=bcl.cno and loan\_application.lno=bcl.lno and lamtrequired > 100000;

CREATE VIEW

bank=# select \* from v\_cust\_loan;

cno | cname | caddr |

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

201 | Vishal | pimpri |

202 | Vikas | kalyan |

202 | Vikas | kalyan |

202 | Vikas | kalyan |

(4 rows)

| city | lamtrequired

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

| pune | 500000

| mumbai | 400000

| mumbai | 500000

| mumbai | 500000

(4 rows)

**2)**

bank=# create or replace view v\_loan\_apply as select loan\_application.\* from loan\_application,branch,bcl

bank-# where branch.bno=bcl.bno and loan\_application.lno=bcl.lno and brname='Sadashiv Peth';

CREATE VIEW

bank=# select \* from v\_loan\_apply;

lno | lamtrequired | lamtapproved | l\_date

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

307 | 500000 | 450000 | 2013-09-25

(1 row)

**3)**

**a)**

bank=# select \* from v\_cust\_loan where lamtrequired=500000;

cno | cname | caddr |

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

201 | Vishal | pimpri |

202 | Vikas | kalyan |

202 | Vikas | kalyan |

| city | lamtrequired

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

| pune | 500000

| mumbai | 500000

| mumbai | 500000

(3 rows)

**b)**

bank=# select \* from v\_loan\_apply where lamtrequired >50000;

lno | lamtrequired | lamtapproved | l\_date

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

307 | 500000 | 450000 | 2013-09-25

(1 row)

**c)**

bank=# select l.lno,l.lamtrequired from loan\_application l where l.lamtrequired in(select lamtreqired from loan\_application group by lamtreqired having count(\*)>1);

lno | lamtrequired |

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

301 | 500000 |

306 | 500000 |

307 | 500000 |

(3 row)

-----------------------------------------------------------------------------------------------

**SET B Database Name:- Project\_Employee database**

project=# create table PROJECT

project-# (PNO INTEGER primary key,

project(# P\_NAME CHAR(30),

project(# PTYPE CHAR(20),

project(# DURATION INTEGER);

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "project\_pkey" for table "project"

CREATE TABLE

project=# insert into project values (101, 'banking','application',3);

INSERT 0 1

project=# insert into project values (102, 'robotics','system',7);

INSERT 0 1

project=# insert into project values (103, 'medical','application',2);

INSERT 0 1

project=# select \* from project;

pno | p\_name | ptype | duration

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

101 | banking | application | 3

102 | Robotics | system | 7

103 | medical | application | 2

(3 rows)

project=# create table EMPLOYEE

project-# (ENO INTEGER primary key,

project(# E\_NAME CHAR (20),

project(# QUALIFICATION CHAR (15),

project(# JOINDATE DATE);

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "employee\_pkey" for table "employee"

CREATE TABLE

project=# insert into employee values(2000,'Amar','BE','2/10/2010');

INSERT 0 1

project=# insert into employee values(2001,'Sandeep','MCS','4/01/2012');

INSERT 0 1

project=# insert into employee values(2002,'Ajay','MCA','1/22/2010');

INSERT 0 1

project=# select \* from employee;

eno | e\_name | qualification | joindate

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

2000 | Amar | BE | 2010-02-10

2001 | Sandeep | MCS | 2012-04-01

2002 | Ajay | MCA | 2010-01-22

(3 rows)

project=# create table proj\_emp

project-# (pno integer references project(pno),

project(# eno integer references employee (eno),

project(# start\_date date,

project(# no\_of\_hours\_worked integer);

CREATE TABLE

project=# insert into proj\_emp values(101,2000,'05/30/2012',20);

INSERT 0 1

project=# insert into proj\_emp values(102,2002,'04/01/0201',50);

INSERT 0 1

project=# insert into proj\_emp values(102,2000,'04/01/2013',30);

INSERT 0 1

project=# insert into proj\_emp values(103,2001,'07/16/2012',25);

INSERT 0 1

project=# select \* from proj\_emp;

pno | eno | start\_date | no\_of\_hours\_worked

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

101 | 2000 | 2012-05-30 | 20

102 | 2002 | 0201-04-01 | 50

102 | 2000 | 2013-04-01 | 30

103 | 2001 | 2012-07-16 | 25

(4 rows)

**View**

**1)**

project=# create view v\_emp as select e\_name, qualification from employee order by qualification;

CREATE VIEW

project=# select \* from v\_emp;

e\_name | qualification

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

Amar | BE

Ajay | MCA

Sandeep | MCS

(3 rows)

**2)**

project=# create view v\_project as select p\_name,ptype,start\_date from project,

proj\_emp where project.pno=proj\_emp.pno order by start\_date;

CREATE VIEW

project=# select \* from v\_project;

p\_name | ptype | start\_date

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

Robotics | system | 0201-04-01

banking | application | 2012-05-30

medical | application | 2012-07-16

Robotics | system | 2013-04-01

(4 rows)

**3)**

**a)**

project=# select distinct(qualification) from v\_emp;

qualification

-----------------

BE

MCA

MCS

(3 rows)

**b)**

project=# select \* from v\_project where start\_date='2013-04-01';

p\_name | ptype | start\_date

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

Robotics | system | 2013-04-01

(1 row)

**c)**

project=# select \* from v\_emp where qualification='BE';

e\_name | qualification

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

Amar | BE

(1 row)

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**SET C Database Name:- Business Trip database**

business=# create table dept

business-# ( deptno varchar(10) primary key,

business(# dept\_name char(20));

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "dept\_pkey" for table "dept"

CREATE TABLE

business=# insert into dept values (10,'computer');

INSERT 0 1

business=# select \* from dept;

deptno | dept\_name

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

10 | computer

20 | western

30 | maths

(3 rows)

business=# create table salesman

business-# (sno integer primary key,

business(# s\_name char(30),

business(# start\_year integer,

business(# deptno varchar(10) references dept(deptno));

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "salesman\_pkey" for table "salesman"

CREATE TABLE

business=# insert into salesman values(101,'Amit',2008,10);

INSERT 0 1

business=# select \*from salesman;

sno | s\_name | start\_year | deptno

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

101 | Amit | 2008 | 10

102 | Vishal | 2010 | 20

103 | Ajay | 2010 | 10

104 | Mr. Patil | 2008 | 30

105 | Raju | 2005 | 20

(5 rows)

business=# create table trip

business-# (tno integer primary key,

business(# from\_city char(20),

business(# to\_city char(20),

business(# dparture\_date date,

business(# return date,

business(# sno integer references salesman(sno));

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "trip\_pkey" for table "trip"

CREATE TABLE

business=# insert into trip values (1,'pune','mumbai','07/22/2008','07/25/2008',102);

INSERT 0 1

business=# select \* from trip;

tno | from\_city | to\_city | dparture\_date | return | sno

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

1 | pune | mumbai | 2008-07-22 | 2008-07-25 | 102

2 | pune | banglore | 2012-09-12 | 2012-09-14 | 101

3 | nashik | calcutta | 2014-06-25 | 2014-06-29 | 102

4 | pune | calcutta | 2014-07-15 | 2014-07-20 | 103

5 | pune | mumbai | 2014-07-15 | 2014-07-20 | 104

6 | pune | Nashik | 2014-08-12 | 2014-08-15 | 105

(6 rows)

business=# create table expense

business-# (eid integer primary key,

business(# amount money);

NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "expense\_pkey" for table "expense"

CREATE TABLE

business=# insert into expense values (1,'$12000');

INSERT 0 1

business=# select \* from expense;

eid | amount

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

1 | $12,000.00

2 | $20,000.00

3 | $9,000.00

4 | $14,000.00

5 | $16,000.00

6 | $15,000.00

(6 rows)

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**View**

**1)**

business=# create or replace view v\_salesman as select salesman.\*,dept\_name from salesman,dept where salesman.deptno=dept.deptno and dept\_name='western';

CREATE VIEW

business=# select \* from v\_salesman;

sno | s\_name | start\_year | deptno | dept\_name

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

102 | Vishal | 2010 | 20 | western

105 | Raju | 2005 | 20 | western

(2 rows)

**2)**

business=# create or replace view v\_trip\_details as select s\_name, trip.\*,amount from salesman,trip,expense where salesman.sno=trip.sno and trip.tno=expense.eid;

CREATE VIEW

business=# select \* from v\_trip\_details;

s\_name | tno | from\_city | to\_city | dparture\_date | return | sno | amount

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

Vishal | 1 | pune | mumbai | 2008-07-22 | 2008-07-25 | 102 | $12,000.00

Amit | 2 | pune | banglore | 2012-09-12 | 2012-09-14 | 101 | $20,000.00

Vishal | 3 | nashik | calcutta | 2014-06-25 | 2014-06-29 | 102 | $9,000.00

Ajay | 4 | pune | calcutta | 2014-07-15 | 2014-07-20 | 103 | $14,000.00

Mr. Patil | 5 | pune | mumbai | 2014-07-15 | 2014-07-20 | 104 | $16,000.00

Raju | 6 | pune | Nashik | 2014-08-12 | 2014-08-15 | 105 | $15,000.00

(6 rows)

**3)**

**a)**

business=# select s\_name from v\_salesman where start\_year = 2005;

s\_name

--------------------------------

Raju

(1 row)

**c)**

business=# select s\_name from v\_trip\_details where to\_city='mumbai';

s\_name

--------------------------------

Vishal

Mr. Patil

(2 rows)

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