B.SC PART-III HONOURS EXAMINATION

SUBJECT : DBMS/ SQL

ROLL: 3201116 NO.: 11633

REG.NO: 1031711300433 OF 2017-2018

PAPER : CMSA -VIII

INDEX

SERIAL NO.	PROBLEM STATEMENTS	DATE	TEACHER'S SIGN
1.	Write the SQL commands for the creation of tables and insert the appropriate values among all entities successfully and answer the following queries	4/11/19	
2.	Write the SQL commands for the creation of tables and ' insert the appropriate values among all entities successfully and answer the following queries	18/11/19	
3.	Write the SQL commands for the creation of tables and insert the appropriate values among all entities successfully and answer the following queries and display the table using visual basic	25/11/19	

ASSIGNMENT NO-1

Date 4/11/19

PROGRAM DESCRIPTION: Write the SQL commands for the creation of tables and insert the appropriate values among all entities successfully and answer the following queries.

SCHEMA:

Employee:

E_NAME	SSN1	DOB	DNO	CITY

Department:

D_NAME	DNUM	MGRSSN	LOC

Dependent:

SSN	DEPENDENT_NAME	BIRTH_DATA	ADDRESS

Project

P_NAME	PNUM	P_LOC	Dno	CITY

Works_On

ESSN	PNO	ORDER

CREATE COMMAND

```
create table employee
(E_name varchar(10),
ssn varchar(10),
dob date,
dno integer,
city char(20),
primary key (ssn));
```

Table created.

create table Dept

```
(D_name varchar (20),
DNO integer,
MGRSSN varchar(10),
LOC varchar(20),
primary key (DNO));
```

Table created.

```
create table Project
(P_NUM varchar(20),
PNUM integer  primary key,
P_Loc varchar(10),
Dno integer,
foreign key (Dno) references Dept (DNO));
```

Table created.

```
create table Works_On
(ESSN varchar(10),
PNO integer ,
ODR varchar(10),
primary key (ESSN,PNO),
foreign key (ESSN) references employee(ssn),
foreign key (PNO) references Project(PNUM));
```

Table created.

```
create table dependent
( ssn varchar(10),
dependant_name varchar(10),
birth date,
address varchar(10));
```

Table created.

INSERT COMMAND

```
SQL>insert into employee values ('John Smith','1234','09-jan-1965',5,'Fordren');
        1 row created.

SQL>insert into employee values ('John Smith','1234','09-jan-1965',5,'Fordren');
        1 row created.
SQL>insert into employee values (‘F Wong’,‘5678’, ‘08-DEC-55’, ‘5’, ‘Voss’);
        1 row created.
SQL>insert into employee values (' A Zelaya',' 3333',' 19-JAN-68',5,'Barlin');
```

```
        1 row created.

SQL>insert into employee values (' R Narayan',' 7777',' 02-FEB-70',4,' Berry');
        1 row created.

SQL>insert into employee values (' A Jabbar','8888 ','03-MAR-71 ',4,'Fire oak');
        1 row created.

SQL>insert into employee values (' J Bong','9876','13-MAR-87',3,' Rice');
        1 row created.

SQL>insert into employee values (' J Smith','9765','13-MAR-74',1,'Dallas');
        1 row created.

SQL>insert into employee values (' J Wading','9555','24-DEC-77',5,'Stone');
        1 row created.

SQL>insert into employee values ('Pritam Roy','4567','08-aug-1973',1,'Stone');
        1 row created.

SQL>insert into employee values ('Dip Roy','4568','08-aug-2005',1,'Stone');
        1 row created.

SQL>insert into employee values ('Pratim Sen','4447','08-aug-2005',6,'Stone');
        1 row created.

SQL>insert into employee values ('S Singh','3339','08-aug-2005',6,'Berry');
        1 row created.

SQL>insert into employee values ('S Hussen','7687','19-feb-2004',6,'Hamilton');
        1 row created.

SQL>insert into Dept values ('Research',5,'3333','Fordren');

        1 row created.

SQL>insert into Dept values ('Administration',4,'7777','Barlin');

        1 row created.

SQL>insert into Dept values ('Marketing',1,'4567','Fire Oak');
        1 row created.

SQL>insert into Dept values ('Finance',3,'4567','Voss');
        1 row created.

SQL>insert into Dept values ('IT',6,'4567','Hantington');
        1 row created.

SQL>insert into Project values ('ProductX',10,'Bellaire',6);
        1 row created.
```

SQL>insert into Project values ('ProductY',30,'Sugarland',1);
1 row created.

SQL>insert into Project values ('ProductZ',20,'Houston',1);
1 row created.

SQL>insert into Project values ('Computeraization',40,'Houston',6);
1 row created.

SQL>insert into Project values ('Reorganization',50,'Stafford',6);
1 row created.

SQL> insert into Works_On values('4447',10,'order1');
1 row created.

SQL>insert into Works_On values('3339',40,'order2');
1 row created.

SQL>insert into Works_On values('7687',50,'order3');
1 row created.

SQL>insert into Works_On values('9765',30,'order4');
1 row created.

SQL>insert into Works_On values('4568',20,'NULL');
1 row created.

SQL>insert into dependent values ('7237','Joy','09-feb-2005','Barlin');
1 row created.

SQL>insert into dependent values ('7687','Amrit','19-jan-2001','Houseton');
1 row created.

SQL>insert into dependent values ('8888','Riya','05-aug-1978','Fire Oak');
1 row created.

SQL>insert into dependent values ('7777','Priyanka','15-sep-1988','Berry');
1 row created.

SQL> insert into dependent values ('5678','Mia','21-oct-1970','Voss');
1 row created.

SQL>insert into dependent values ('9555','Suzi','09-oct-1970','Stone');
1 row created.

DISPLAY COLUMN OF TABLE

SQL> select* from employee;

E_NAME	SSN1	DOB	DNO	CITY
John Smith	1234	09-JAN-65	5	Fordren
F Wong	5678	08-DEC-55	5	Voss

A Zelaya	3333	19-JAN-68	5	Barlin
R Narayan	7777	02-FEB-70	4	Berry
A Jabbar	8888	03-MAR-71	4	Fire Oak
J Bong	9876	13-MAR-87	3	Rice
J Smith	9765	13-MAR-74	1	Dallas
J Wading	9555	24-DEC-77	5	Stone
Pritam Roy	4567	08-AUG-73	1	Stone
Dip Roy	4568	08-AUG-05	1	Stone
Pratim Sen	4447	08-AUG-05	6	Stone

E_NAME	SSN1	DOB	DNO	CITY
S Singh	3339	08-AUG-05	6	Berry
S Hussen	7687	19-FEB-04	6	Hamilton
A Manna	7237	19-MAR-94	6	Barlin

14 rows selected.

SQL> select* from DEPT;

D_NAME	DNO	MGRSSN	LOC
Research	5	3333	Fordren
Administration	4	7777	Barlin
Finance	3	4567	Voss
IT	6	4567	Hantington
Marketing	1	4567	Fire Oak

SQL> select* from project;

P_NUM	PNUM	P_LOC	DNO
ProductX	10	Bellaire	6
ProductY	30	Sugarland	1
ProductZ	20	Houston	1
Computeraization	40	Houston	6
Reorganization	50	Stafford	6

SQL> select* from Works_On;

ESSN	PNO	ODR
4447	10	order1
3339	40	order2
7687	50	order3
9765	30	order4
4568	20	NULL

SQL> select* from dependent;

SSN	DEPEN_	BIRTH	ADDRESS
7237	Joy	09-FEB-05	Barlin
7687	Amrit	19-JAN-01	Houseton
8888	Riya	05-AUG-78	Fire Oak
7777	Priyanka	15-SEP-88	Berry
5678	Mia	21-OCT-70	Voss
9555	Suzi	09-OCT-70	Stone

6 rows selected.

QUERIES

Q1. **Find the projects that have involved 'Pritam Roy' as manager**

```
SQL> select P_NUM
  2  from Project,Employee ,Dept
  3  where Project.Dno=Dept.DNO AND Dept.DNO=Employee.dno AND ssn=MGRSSN
AND E_name='Pritam Roy';

P_NUM
--------------------
ProductY
ProductZ
```

Q2. **Find the employers who have no dependent.**

```
SQL> select E_name
from employee
where NOT EXISTS
( select*
from dependent
where ssn1=ssn);

E_NAME
----------
John Smith
A Zelaya
J Bong
J Smith
Pritam Roy
```

Dip Roy
Pratim Sen
S Singh

8 rows selected.

Q3. **Find the projects and numbers of employers who work on the project.**

```
SQL> SELECT P_NUM,COUNT(ssn)
  2  FROM employee E, Project P
  3  WHERE E.dno=P.Dno
  4  GROUP BY P_NUM;
```

P_NUM	COUNT(SSN)
Computeraization	4
ProductZ	3
ProductY	3
Reorganization	4
ProductX	4

Q4. **Find the name, DOB and dept no of the employees who works on the same project.**

```
SQL> SELECT E_name,DOB,D.DNO
  2  from employee E, Dept D
  3  where E.dno=D.DNO
  4  ORDER BY E.dno;
```

E_NAME	DOB	DNO
J Smith	13-MAR-74	1
Dip Roy	08-AUG-05	1
Pritam Roy	08-AUG-73	1
J Bong	13-MAR-87	3
R Narayan	02-FEB-70	4
A Jabbar	03-MAR-71	4
F Wong	08-DEC-55	5

A Zelaya 19-JAN-68 5

J Wading 24-DEC-77 5

John Smith 09-JAN-65 5

Pratim Sen 08-AUG-05 6

S Hussen 19-FEB-04 6

A Manna 19-MAR-94 6

S Singh 08-AUG-05 6

14 rows selected.

Q5. **Find the names of employees and departments who was born in 08 aug 2005**

```
SQL> select E_name , D_name
  2  from employee E, Dept D
  3  where E.dno=D.DNO AND E.DOB='08-aug-2005';
```

E_NAME D_NAME

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

S Singh IT

Pratim Sen IT

Dip Roy Marketing

ASSIGNMENT NO: 2 ***DATE: 18/11/2019***

PROGRAM DESCRIPTION:

Write the SQL commands for the creation of tables and insert the appropriate values among all entities successfully and answer the following queries.

SCHEMA:

BRANCH

branch_name	Branch_city	assets

CUSTOMER

customer_name	street	city

LOAN

branch_name	Loan_no	amount

ACCOUNT

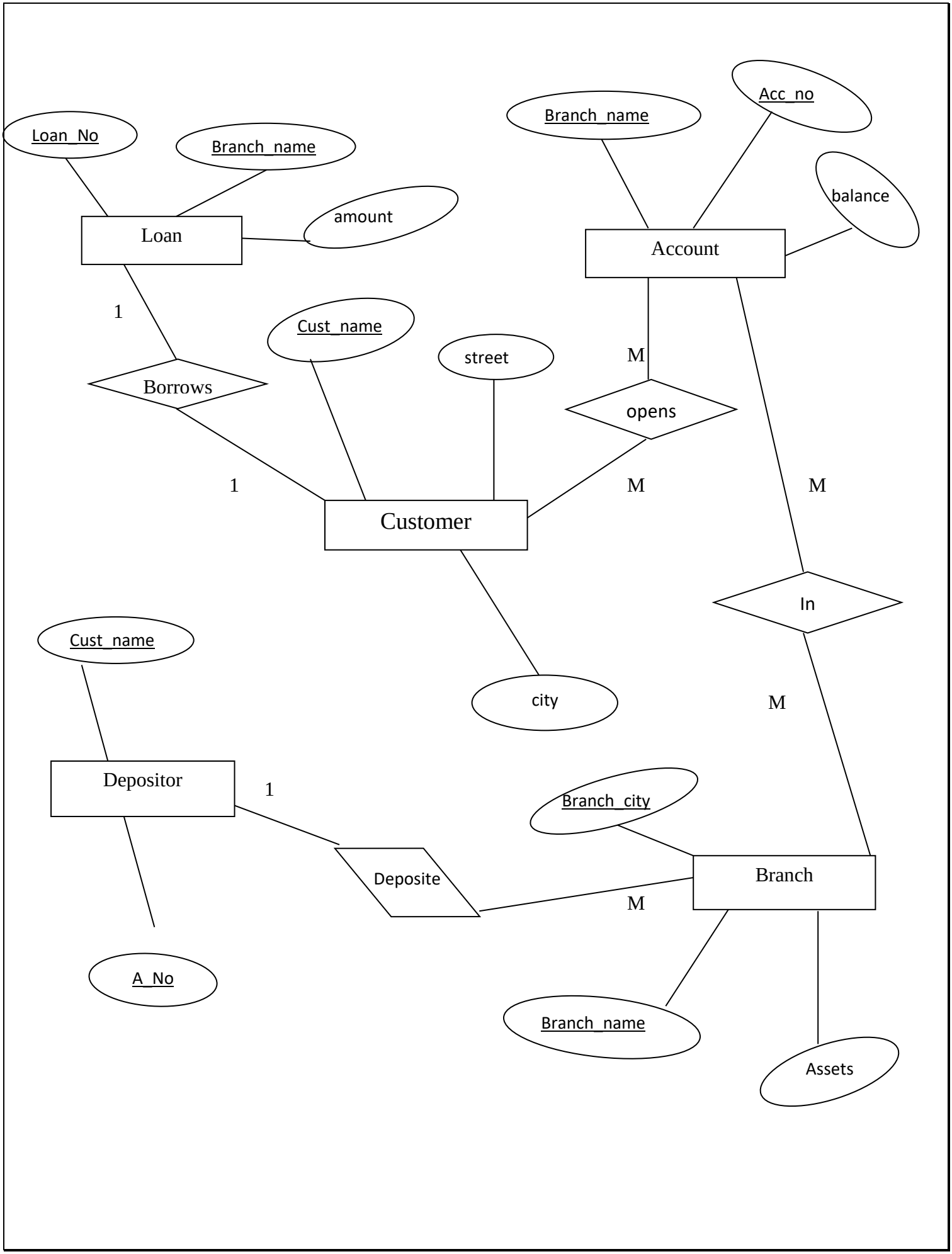
branch_name	Acc_no	balance

DEPOSITOR

Cust_name	A_no

ENTITY RELATIONSHIP (ER) DIAGRAM:

THE DIAGRAM IS SHOWN AS FOLLOW:----------


Loan_No
Branch_name
Loan
amount
1
Borrows
Cust_name
street
Customer
1
Branch_name
Acc_no
balance
Account
M
opens
M
M
In
M
Cust_name
city
Depositor
1
Deposite
Branch_city
Branch
M
A_No
Branch_name
Assets

CREATE COMMAND:

```
SQL> create table branch
  2  ( branch_name varchar(12)  primary key,
  3  branch_city varchar(20),
  4  assets varchar(10));
Table created.

SQL> create table customer
  2  (customer_name varchar(12) primary key ,
  3  street varchar(30),
  4  city varchar(10));
Table created.

SQL> create table Loan
  2  (branch_name varchar(12) references branch,
  3  loan_no integer primary key,
  4  amount number(6));
Table created.

SQL> create table Account
  2  (branch_name varchar(12) references branch,
  3  acct_no integer primary key,
  4  balance integer);

Table created.
```

```
SQL>create table Depositor
2  (cust_name varchar(12) references customer,
3  A_No integer references Account);

Table created.
```

INSERT COMMAND:

```
SQL> insert into branch values ('SBI', 'Durgapur', '5 crore');
1 row created.
SQL> insert into branch values ('UBI', 'Durgapur', '7 crore');
1 row created.
SQL>insert into branch values ('UCO', 'Mumbai', '8 crore');
1 row created.
SQL>insert into branch values ('AXIS', 'Gariahat', '6 crore');
1 row created.

SQL>insert into customer values('Amal PAl', 'S.Bagan_street', 'Gariahat');
1 row created.
SQL>insert into customer values('Trina Das', 'T.D.Banarjee', 'Garia');
1 row created.
SQL>insert into customer values('Riya Roy', 'B-20,old courtstreet', 'Gariahat');
1 row created.
SQL>insert into customer values('Adi Dey', 'Camac street', 'Kolkata');
1 row created.
```

```
SQL> insert into loan values('SBI', 1001, 85000);

1 row created.

SQL> insert into loan11 values('UBI', 1002, 90000);

1 row created.

SQL> insert into loan11 values('SBI', 1003, 100000);

1 row created.

SQL> insert into loan11 values('AXIS', 1004, 80000);

1 row created.


SQL> insert into Account16 values('UBI', 4002, 90000);

1 row created.

SQL> insert into Account16 values('SBI', 4003, 100000);

1 row created.

SQL> insert into Account16 values('AXIS', 4004, 80000);

1 row created.

SQL>

1 row created.



SQL>insert into Depositor values('Amal Pal', 4001);

1 row created.

SQL>insert into Depositor values('Trina Das', 4002);

1 row created.
```

DISPLAYING TOTAL ROWS OF TABLE:

SQL> select * from branch;

BRANCH_NAME	BRANCH_CITY	ASSETS
SBI	Durgapur	5 crore
UBI	Durgapur	7 crore
UCO	Mumbai	8 crore
AXIS	Gariahat	6 crore

SQL>select * from customer ;

CUSTOMAR_NAME	STREET	CITY
Amal Pal	S.Bagan_street	Gariahat
Trina Das	T.D.Banarjee	Garia
Riya Roy	B-20,old courtstreet	Gariahat
Adi Dey	Camac street	Kolkata

SQL> select * from loan ;

BRANCH_NAME	LOAN_NO	AMOUNT
SBI	1001	85000
UBI	1002	90000
SBI	1003	100000
AXIS	1004	80000

SQL> select * from Account;

BRANCH_NAME	ACCT_NO	BALANCE
SBI	4001	85000
UBI	4002	90000
SBI	4003	100000
AXIS	4004	80000

SQL>select * from Depositor;

CUST_NAME	A_NO
Amal Pal	4001
Trina Das	4002

QUERIES:

1.Find all customers who have an account at all the branches located in Durgapur.

```
SQL>select customer_name
      from customer c
      where not exist
((select branch_city
from branch
where branch_city='Durgapur'))
minus
((select cust_name
from Depositor D
where D.cust_name = c.cust_name));

SQL>commit;
```

CUST_NAME	BRANCH_CITY
Amal Pal	Durgapur
Trina Das	Durgapur

2.Find the average account balance of those branches where the average account balance is greater than Rs.80000/-.

```
SQL> select branch_name
  from Account
  where balance=(select avg (balance)
                from Account);
SQL>commit;
```

BRANCH_NAME

UBI

SBI

3.Find the customers who have deposited ammounts to the same branches.

```
SQL> select cust_name
     from Account A, Depositor D
     where A.Acc_No=D.A_No
     group by branch_name;

SQL>commit;
```

BRANCH_NAME	CUST_NAME
SBI	Amal Pal
SBI	Riya Roy
UBI	Trina Das
Axis	Adi Dey

4.Get the ammount info of the customers who have loaned from the branches with assets more then 5 crore.

```
SQL> select c.customer_name
     from customer c
     where Depositor D on D.cust_name=c.customer_name and
          Account A on A.ACC_No=D.A_No and
          Branch B on B.branch_name=A.branch_name and
          B.assets > '5 crore' ;
```

SQL>commit;

CUST_NAME

Trina Das

Adi Dey

5.Find the depositors who lives in Gariahat with having loan more than one.

```
SQL> select c.customer_name
     from Depositor D
     where Loan L on L.loan_no=D.A_No
        and customer c on c.customer_name=D.cust_name
        and c.city='Gariahat'
        group by c.customer_name
        having count(L.loan_no)>1;
```

SQL>commit;

CUST_NAME

Amal Pal

Riya Roy

DATE: 25/11/19

ASSIGNMENT NO.3

PROGRAM DESCRIPTION: Write the SQL commands for the creation of tables and insert the appropriate values among all entities successfully and answer the following queries.

SCHEMA:

CUSTOMER

CUST_ID	CUST_NAME	ANUUAL_REV	CUST_TYPE

TRUCK

TRUCK_NO	DRIVER_NAME

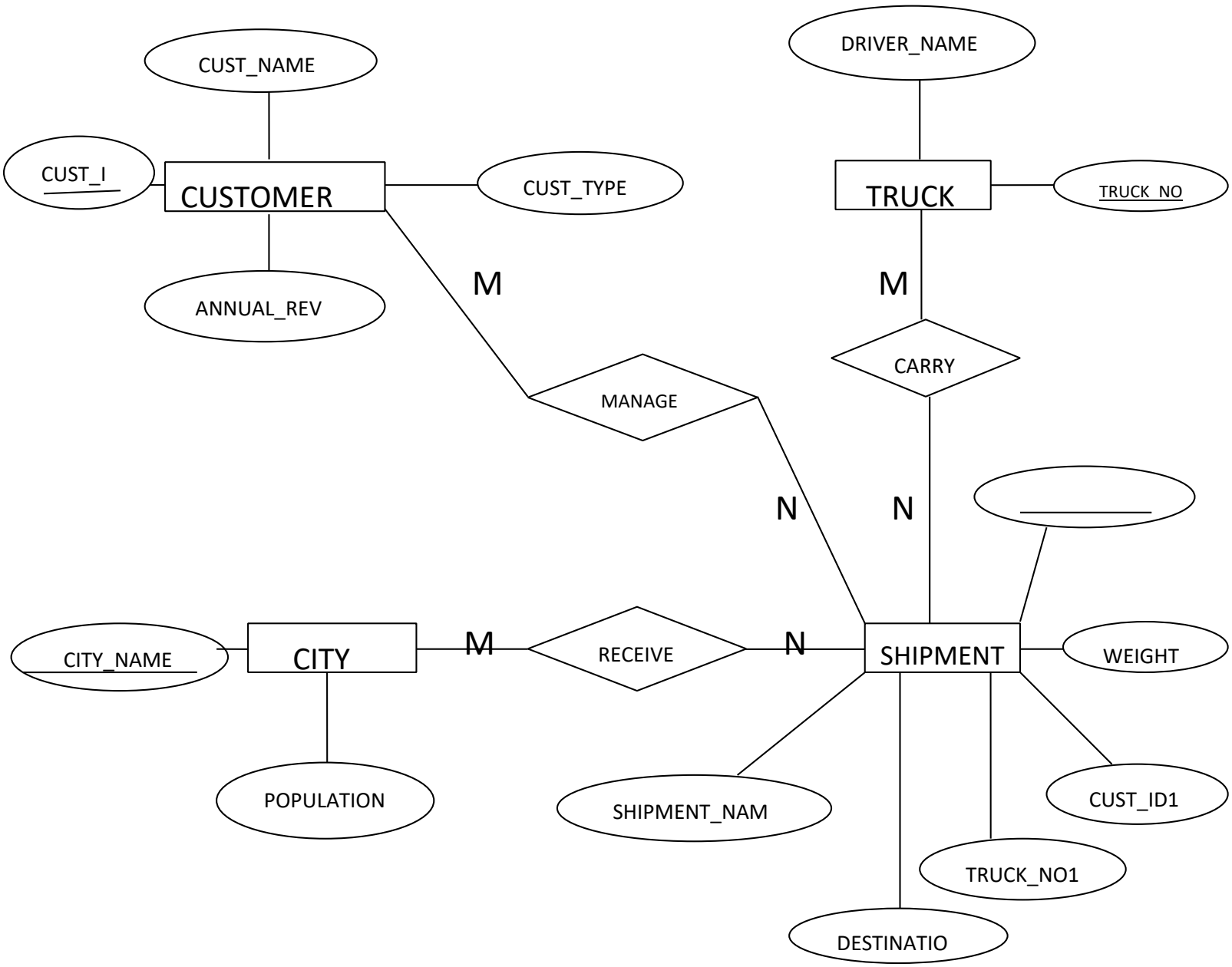
CITY

CITY_NAME	POPULATION

SHIPMENT

SHIPMENT_ID	CUST_ID1	WEIGHT	TRUCK_NO1	DESTINATION	SHIPMENT_NAME

ENTITY RELATIONSHIP (ER) DIAGRAM:



CREATE COMMAND:

```
SQL> create table customer
2  (cust_id number(10),
3  cust_name varchar2(20),
4  annual_rev integer,
5  cust_type varchar2(20),
6  primary key(cust_id));

Table created.


SQL> create table truck
2  (truck_no number(10),
3  driver_name varchar2(15),
4  primary key(truck_no));

Table created.


SQL> create table city
2  (city_name varchar2(30),
3  population integer,
4  primary key(city_name));

Table created.
```

```
SQL> create table shipment
2  (shipment_id number(5),
3  cust_id1 number(10),
4  weight integer,
5  truck_no1 number(10),
6  destination varchar2(30),
7  shipment_name varchar2(20),
8  primary key(shipment_id),
9  foreign key(cust_id1) references customer(cust_id),
10        foreign key(truck_no1) references truck(truck_no),  11  foreign key(destination) references city(city_name));

Table created.
```

DISPLAY COMMAND:

```
SQL> desc customer;

 Name                      Null?             Type
 ------------------------  ------------      ----------------------------
 CUST_ID                   NOT NULL          NUMBER(10)
CUST_NAME                                    VARCHAR2(20)
 ANNUAL_REV                                  NUMBER(38)
CUST_TYPE                                    VARCHAR2(20)


SQL> desc truck;

Name                       Null?             Type
 -------------------------  ------------      -------------------------
 TRUCK_NO                  NOT NULL          NUMBER(10)
 DRIVER_NAME                                 VARCHAR2(15)


SQL> desc city;

 Name                      Null?             Type
 ------------------------  ------------      -------------------------
CITY_NAME                  NOT NULL          VARCHAR2(30)
```

POPULATION NUMBER(38)

SQL> desc shipment;

Name Null? Type
---------- ---------- ----------
SHIPMENT_ID NOT NULL NUMBER(5)
CUST_ID1 NUMBER(10)
WEIGHT NUMBER(38)
TRUCK_NO1 NUMBER(10) DESTINATION
VARCHAR2(30) SHIPMENT_NAME VARCHAR2(20)

SQL> alter table customer add(check(cust_id >100 and cust_id <500));

Table altered.

SQL> alter table customer add(check(cust_type in ('manufacturer','wholeseller','retailer')));

Table altered.

INSERT COMMAND:

SQL>insert into customer values (258,'siram',560000,'manufacturer');

1 row created.

SQL>insert into customer values (141,'karim',60000,'retailer');

1 row created.

SQL>insert into customer values (296,'prolay',70000,'manufacturer');

1 row created.

SQL>insert into customer values (355,'sankalpa',200000,'wholeseller');

1 row created.

SQL>insert into customer values (459,'pratik',100000,'wholeseller');

1 row created.

SQL>insert into customer values (416,'kunal',90000,'retailer');

1 row created.

SQL>insert into truck values (1,'rajesh');

1 row created.

SQL>insert into truck values (2,'rohan');

1 row created.

SQL>insert into truck values (10,'bishnu');
1 row created.

SQL>insert into truck values (20,'raju');

1 row created.

SQL>insert into truck values (50,'rahul');

1 row created.

SQL>insert into city values ('kolkata',500000);

1 row created.

SQL>insert into city values ('mumbai',150000);

1 row created.

SQL>insert into city values ('lakshdweep',50000);

1 row created.

SQL>insert into city values ('pune',80000);

1 row created.

SQL>insert into city values ('hyderabad',1000000);

1 row created.

SQL>insert into city values ('coachin',200000);

1 row created.

SQL>insert into shipment values (60,141,500,1,'pune','productX');

1 row created.

SQL>insert into shipment values (70,258,800,1,'kolkata','productX');

1 row created.

SQL>insert into shipment values (75,355,1200,50,'kolkata','productY');

1 row created.

SQL>insert into shipment values (80,141,600,20,'mumbai','productZ');

1 row created.

SQL>insert into shipment values (85,355,1100,20,'mumbai','productZ');

1 row created.

SQL>insert into shipment values (90,459,1000,2,'mumbai','productY');

1 row created.

SQL>insert into shipment values (100,355,400,10,'lakshdweep','productY');

1 row created.

SQL>insert into shipment values (115,141,392,50,'coachin','productX');

1 row created.

SQL>insert into shipment values (150,459,999,2,'hyderabad','productZ');

1 row created.

DISPLAYING TOTAL ROWS OF TABLES:

SQL> select *from customer;

CUST_ID	CUST_NAME	ANNUAL_REV	CUST_TYPE
258	siram	560000	manufacturer
141	karim	60000	retailer
296	prolay	70000	manufacturer

355 sankalpa 200000 wholeseller
459 pratik 100000 wholeseller
416 kunal 90000 retailer

6 rows selected.

SQL> select *from truck;

TRUCK_NO	DRIVER_NAME
1	rajesh
2	rohan
10	bishnu
20	raju
50	rahul

SQL> select *from city;

CITY_NAME	POPULATION	--
kolkata	500000	
mumbai	150000	
lakshdweep	50000	pune
80000	hyderabad	
1000000	coachin	
200000		

6 rows selected.

SQL> select *from shipment;

SHIPMENT_ID	CUST_ID1	WEIGHT	TRUCK_NO1	DESTINATION	SHIPMENT_NAME
60	141	500	1	pune	productX
70	258	800	1	kolkata	productX
75	355	1200	50	kolkata	productY

80	141	600	20	mumbai	productZ
85	355	1100	20	mumbai	productZ
90	459	1000	2	mumbai	productY
100	355	400	10	lakshdweep	productY
115	141	392	50	coachin	productX
150	459	999	2	hyderabad	productZ

9 rows selected.

QUERIES:

Q1. What are the truck numbers of trucks that have been carrying shipments waiting over 500.

```
SQL> select distinct truck_no1 from shipment where
  2 weight > 500 ;

 TRUCK_NO
----------
        1
       20
        2
       50
```

Q2. Create an alphabetical list of name of customers with more than 80K in annual revenue. SQL>
select cust_name from customer where
2 annual_rev >80000 order by cust_name;

```
CUST_NAME
--------------------
siram                                    kunal
pratik
sankalpa
```

Q3. Give names of an average monthly revenue of customers having annual revenue exceeding 50K but not more than 5 Lakhs.

```
SQL> select cust_name,avg(annual_rev/12) from customer where
2  (annual_rev between 50000 and 500000) group by cust_name;

CUST_NAME            AVG(ANNUAL_REV/12)
-------------------  ------------------------------------
sankalpa                        16666.6667
pratik                        8333.33333
kunal                            7500                          prolay
5833.33333                          karim
5000
```

Q4. Give names of customers who have sent shipments to cities with names starting with 'C'.

```
SQL> select cust_name from customer,shipment where
 2  cust_id=cust_id1 and destination like 'c%';

CUST_NAME                                          --
------------------                                 karim
```

Q5. What are the names of customers who have sent shipments through pune.

```
SQL> select cust_name from customer,shipment where
2  cust_id=cust_id1 and destination='pune';

CUST_NAME                                          --
------------------                                 karim
```

Q6. What are the names and the population of cities that have received shipments weighting over 800.

```
SQL> select city_name,population from city,shipment where
 2  city_name=destination and weight >800;

CITY_NAME             POPULATION
--------------------  ------------------------------
kolkata                  500000
mumbai                   150000                        mumbai
150000                     hyderabad                 1000000
```

Q7. Who are the customers having over 80K in annual revenue and have sent shipments weighing less than 900 or have sent a shipment to Mumbai.

```
SQL> select distinct cust_name,cust_id from customer,shipment where
2  ((cust_id=cust_id1 and weight <900) or (cust_id=cust_id1 and destination='mumbai'))and (annual_rev
>80000);

CUST_NAME             CUST_ID                          ---
------------------    ---------------
```

sankalpa 355
pratik 459 siram
258

Q8. List cities that have received shipments for every customers.

SQL> select distinct city_name from city,shipment,customer where
2 cust_id=cust_id1 and destination=city_name;

CITY_NAME --
---
mumbai
hyderabad
coachin
pune
lakshdweep
kolkata

6 rows selected.

Q9. How many shipments has customer 141 sent.

SQL> select count(*) from shipment where cust_id1=141;

COUNT(*)

3

Q10. Which cities in the database have the largest and the smallest population.

SQL> select city_name,population from city where population in
2 (select max(population) from city) union
3 (select city_name from city where population in (select min(population) from city));

CITY_NAME POPULATION
--- ---
hyderabad 1000000 lakshdweep
50000

Q11. List the customer who are manufacturers or have sent to a package to 'lakshdweep'.

SQL> select distinct cust_name from customer,shipment where
2 (cust_type='manufacturer') or (cust_id=cust_id1 and destination='lakshdweep');

CUST_NAME --
---
siram

sankalpa
prolay

Q12. List cities of population over 1 Lakh which have received a 600 weight packet from customer 141.

```
SQL> select city_name from city,shipment where
 2  population>100000 and destination=city_name and weight=600 and cust_id1=141;

CITY_NAME                                         ---------
----------                                        mumbai
```

Q13. Give a list of customers all of whose shipments weight over 500.

```
SQL> select distinct cust_name from customer,shipment where
2  cust_id=cust_id1 and weight>500;

CUST_NAME                                          --
----------                                         siram
sankalpa
pratik                                             karim
```

Q14. List the names of the drivers who have delivered shipment weighing over 800.

```
SQL> select distinct driver_name from truck,shipment where
 2  truck_no=truck_no1 and weight>800;

DRIVER_NAME
----------
rohan
raju                                               rahul
```

Q15. Give names of the customers who have 'r' at the 3rd character of the names.

```
SQL> select cust_name from customer where cust_name like '__r%';

CUST_NAME                                          -
----------
siram                                              karim
```