Implementation of Set operators, join Queries and views

Aim: The of set operators various types of joins. views

A. Select distinct names from DEPOSIT and loan (union)

B. Select all names from DEPOSIT and LOAN (union ALL)

C. Select names of customers having both LOAN and DEPOSIT (Intersect).

D. Select names of customers who have deposit but no loan taken (the minus)

E. Select all columns from both tables for matching NAME and BNAME (the equijoin)

F. Select all rows of DEPOSIT and matching rows of LOAN (the left outer join)

G. Select rows of LOAN and matching rows of DEPOSIT (the right outer join).

H. Select all rows from both tables (the full outer join)

I. Create a view called CUSTINF Containing ID, NAME, BNAME, AMI from the tables DEPOSIT and LOAN. select all rows from both tables (the full outer join).

Result: Set operations, join queries and views have been successfully implemented.

A)
```
SELECT NAME FROM DEPOSITCS350 UNION SELECT NAME FROM LOANCS350;
NAME
----------
Anil
Jos
Joseph
Kumar
Meena
Rajan
Rani
Reena
Sheela
9 rows selected.
```

B)
```
SELECT NAME FROM DEPOSITCS350 UNION ALL SELECT NAME FROM LOANCS350;
NAME
----------
Anil
Jos
Sheela
Meena
Rajan
Kumar
Anil
Joseph
Meena
Rani
Reena
11 rows selected.
```

C)
```
SELECT NAME FROM DEPOSITCS350 INTERSECT SELECT NAME FROM LOANCS350;
NAME
----------
Anil
Meena
```

D)
```
SELECT NAME FROM DEPOSITCS350 MINUS(SELECT NAME FROM LOANCS350);
NAME
----------
Jos
Kumar
Rajan
Sheela
```

E) SELECT * FROM DEPOSITCS350 JOIN LOANCS350 ON DEPOSITCS350.NAME=LOANCS350.NAME AND

```
        DEPOSITCS350.BNAME=LOANCS350.BNAME;

ACCNO NAME BN BALANCE LDATE LOANNO NAME BN

AMOUNT LLDATE

100 Anil B1 8800 10-MAY-16 200 Anil B1
25000 10-OCT-14
103 Meena B3 9900 12-AUG-24 202 Meena B3
50000 18-FEB-15
```

F) SELECT * FROM DEPOSITCS350 LEFT OUTER JOIN LOANCS350 ON
DEPOSITCS350.NAME=LOANCS350.NAME AND
    DEPOSITCS350.BNAME=LOANCS350.BNAME;

```
ACCNO NAME BN BALANCE LDATE LOANNO NAME BN
--------- ---------- -- ---------- --------- --------- ---------- --

AMOUNT LLDATE
---------- ----------

100 Anil B1 8800 10-MAY-16 200 Anil B1
25000 10-OCT-14
103 Meena B3 9900 12-AUG-24 202 Meena B3
50000 18-FEB-15
104 Rajan B2 5500 24-MAY-16


ACCNO NAME BN BALANCE LDATE LOANNO NAME BN
--------- ---------- -- ---------- --------- --------- ---------- --

AMOUNT LLDATE
---------- ----------

102 Sheela B2 6600 18-OCT-14
101 Jos B1 18700 17-JUN-16
105 Kumar B1 15400 25-MAY-15
6 rows selected.
```

G) SELECT * FROM DEPOSITCS350 RIGHT OUTER JOIN LOANCS350 ON
    DEPOSITCS350.NAME=LOANCS350.NAME AND DEPOSITCS350.BNAME=LOANCS348.BNAME;

```
ACCNO NAME BN BALANCE LDATE LOANNO NAME BN
--------- ---------- -- ---------- --------- --------- ---------- --

AMOUNT LLDATE
---------- ----------

100 Anil B1 8800 10-MAY-16 200 Anil B1
25000 10-OCT-14
103 Meena B3 9900 12-AUG-24 202 Meena B3
50000 18-FEB-15
204 Reena B2
17000 27-MAR-15


ACCNO NAME BN BALANCE LDATE LOANNO NAME BN
--------- ---------- -- ---------- --------- --------- ---------- --
```

```
AMOUNT LLDATE
---------- ---------
203 Rani B2
18000 28-MAR-16
201 Joseph B1
30000 10-MAR-14
```

H) SELECT * FROM DEPOSITCS350 FULL OUTER JOIN LOANCS350 ON
   DEPOSITCS350.NAME=LOANCS350.NAME AND DEPOSITCS350.BNAME=LOANCS350.BNAME;

```
ACCNO NAME BN BALANCE LDATE LOANNO NAME BN
---------- ---------- -- ---------- --------- ---------- ---------- --
AMOUNT LLDATE
---------- ---------
100 Anil B1 8800 10-MAY-16 200 Anil B1
25000 10-OCT-14
103 Meena B3 9900 12-AUG-24 202 Meena B3
50000 18-FEB-15
104 Rajan B2 5500 24-MAY-16

ACCNO NAME BN BALANCE LDATE LOANNO NAME BN
---------- ---------- -- ---------- --------- ---------- ---------- --
AMOUNT LLDATE
---------- ---------
102 Sheela B2 6600 18-OCT-14
101 Jos B1 18700 17-JUN-16
105 Kumar B1 15400 25-MAY-15

ACCNO NAME BN BALANCE LDATE LOANNO NAME BN
---------- ---------- -- ---------- --------- ---------- ---------- --
AMOUNT LLDATE
---------- ---------
201 Joseph B1
30000 10-MAR-14
204 Reena B2
17000 27-MAR-15
203 Rani B2
18000 28-MAR-16
9 rows selected
```

I)CREATE VIEW CUSTINF AS
  SELECT
              COALESCE(d.ACCNO, l.LOANNO) AS ACCNO,
              COALESCE(d.NAME, l.NAME) AS NAME,
              COALESCE(d.BNAME, l.BNAME) AS BNAME,
              COALESCE(d.BALANCE, l.AMOUNT) AS AMOUNT
   FROM DEPOSITCS350 d
   FULL OUTER JOIN
   LOAN l ON d.BNAME=l.BNAME;
   View created.