

SUJITH RAMAN S

S2 RMCA B

ROLL NO: 27

EXPERIMENT NO. 5: AGGREGATE FUNCTIONS

*/*1.List total loan*/*

SELECT SUM (AMOUNT) FROM BORROW;

*/*2.List total deposit*/*

SELECT SUM (AMOUNT) FROM DEPOSIT;

*/*3.List total loan taken from KAROLBAGH branch*/*

SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME
='KAROLBAGH';

/ 4.List total deposit of customers having account date later than 1-Jan-96*/*

SELECT SUM(AMOUNT) from deposit where adate>'1995-03-01';

/ 5.List total deposit of customers living in city NAGPUR*/*

SELECT SUM(D1.AMOUNT) FROM DEPOSIT D1 , CUSTOMER C1
WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME;

*/*6.List maximum deposit of customer living in Bombay*/*

SELECT MAX(D1.AMOUNT) FROM DEPOSIT D1 , CUSTOMER C1
WHERE C1.CITY = 'Bombay' AND C1.CNAME = D1.CNAME;

/ 7.List total deposit of customer having branch in BOMBAY*/*

SELECT SUM (AMOUNT) from deposit,BRANCH where city='BOMBAY';

/* 8.Count total number of branch cities*/

SELECT COUNT(DISTINCT (CITY)) FROM BRANCH ;

/*9.Count total number of customers cities*/

SELECT count(city) from CUSTOMER;

/* 10.Give branch names and branch wise deposit*/

SELECT BNAME , SUM(AMOUNT) FROM DEPOSIT GROUP BY
BNAME;

/*11.Give city wise name and branch wise deposit*/

SELECT C1.CITY , SUM(D1.AMOUNT) FROM CUSTOMER C1 , DEPOSIT
D1 WHERE D1.CNAME = C1.CNAME GROUP BY C1.CITY;

/*12.Give the branch wise loan of customer living in NAGPUR*/

SELECT BNAME , SUM(AMOUNT) FROM BORROW,CUSTOMER
WHERE city ='NAGPUR' GROUP BY BNAME;

/*13.Count total number of customers*/

SELECT count(cname) from CUSTOMER;

/*14.Count total number of depositors branch wise*/

SELECT BName, count (*)from DEPOSIT, CUSTOMER where
deposit.CNAME = CUSTOMER.CNAME group by BNAME

/*15.Count total number of depositors branch wise*/

```
SELECT BName, count (*)from DEPOSIT, CUSTOMER where  
deposit.CNAME = CUSTOMER.CNAME group by BNAME
```

/*16.Give maximum loan from branch VRCE*/

```
SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='VRCE';
```

/*17.Give the number of customers who are depositors as well as borrowers*/

```
SELECT COUNT(DISTINCT (CNAME)) FROM CUSTOMER WHERE  
CNAME IN ((SELECT CNAME FROM DEPOSIT) INTERSECT (SELECT  
CNAME FROM BORROW));
```

OUTPUT

```
22000.0  
24200.0  
  
11500.0  
4200.0  
  
48400.0  
4  
10  
ANDHERI|2000.0  
ANJNI|500.0  
CHANDNI|1200.0  
KAROLBAGH|3500.0  
MG ROAD|3000.0  
NEHRU PLACE|5000.0  
POWAI|7000.0  
VIRAR|1000.0  
VRCE|1000.0  
BARODA|3500.0  
BOMBAY|6000.0  
CALCUTTA|1000.0  
DELHI|500.0  
NAGPUR|4200.0  
AJNI|10000.0  
ANDHERI|4000.0  
DHARAMPETH|6000.0  
NEHRU PLACE|6000.0  
VIRAR|16000.0  
VRCE|2000.0  
10
```

EXPERIMENT NO.6 : SET OPERATIONS

/*1. List all the customers who are depositors but not borrowers.*/

```
SELECT CNAME FROM DEPOSIT MINUS SELECT CNAME FROM  
BORROW;
```

/*2. List all the customers who are both depositors and borrowers*/

```
SELECT CNAME FROM DEPOSIT UNION (SELECT CNAME FROM  
BORROW);
```

/*3. List all the depositors having deposit in all the branches where Sunil is having Account*/

```
SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN  
(SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME = 'SUNIL'  
);
```

/*4. List all the customers living in city NAGPUR and having branch city BOMBAY or DELHI*/

```
SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1  
WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND  
D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY','DELHI');
```

/*5. List all the depositors living in city NAGPUR*/

```
SELECT Distinct(CUSTOMER.CNAME) from CUSTOMER,DEPOSIT  
WHERE City='NAGPUR';
```

/*6. List all the depositors living in the city NAGPUR and having branch in city BOMBAY*/

```
SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1, BRANCH B1  
WHERE C1.CITY = 'NAGPUR' AND C1.CNAME = D1.CNAME AND  
D1.BNAME = B1.BNAME AND B1.CITY IN ('BOMBAY');
```

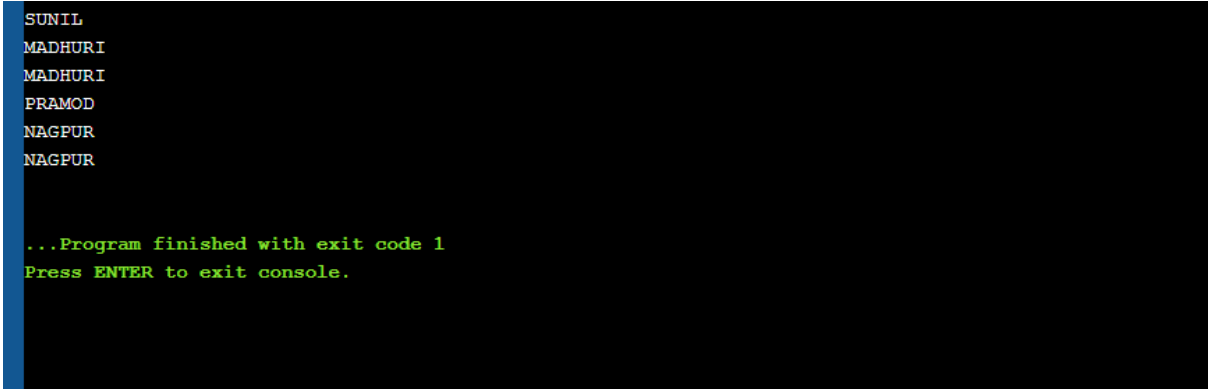
/*7. List the branch cities of Anil and Sunil*/

```
SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME  
= B1.BNAME AND D1.CNAME IN ('SUNIL' ,'ANIL');
```

/*11. List all the cities where branches of Anil and Sunil are locate*/

```
SELECT B1.CITY FROM BRANCH B1 WHERE B1.BNAME IN (SELECT  
D1.BNAME FROM DEPOSIT D1 WHERE D1.CNAME IN  
( 'ANIL','SUNIL'));
```

OUTPUT



```
SUNIL  
MADHURI  
MADHURI  
PRAMOD  
NAGPUR  
NAGPUR  
  
...Program finished with exit code 1  
Press ENTER to exit console.
```

EXPERIMENT NO. 7 : JOIN OR CARTESIAN PRODUCT

/*1. Give name of customers having living city BOMBAY and branch city NAGPUR*/

```
SELECT  
D1.CNAME,D1.BNAME,C1.CNAME,C1.CITY,B1.CITY,B1.BNAME FROM  
DEPOSIT D1,CUSTOMER C1,BRANCH B1 WHERE C1.CITY = 'BOMBAY'  
AND B1.CITY = 'NAGPUR' AND D1.CNAME = C1.CNAME AND  
D1.BNAME = B1.BNAME;
```

/*2.Give names of customers having the same living city as their branch city*/

```
SELECT distinct(customer.CNAME), BRANCH.CITY FROM BRANCH,  
customer WHERE BRANCH.city = customer.city;
```

/*3.Give names of customers who are borrowers as well as depositors and having city NAGPUR.*/

```
SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1,BORROW B1  
WHERE C1.CITY='NAGPUR' AND C1.CNAME=D1.CNAME AND  
D1.CNAME = B1.CNAME;
```

/*4.Give names of borrowers having deposit amount greater than 1000 and loan amount greater than 2000.*/

```
SELECT BR1.CNAME, BR1.AMOUNT, D1.CNAME, D1.AMOUNT FROM  
BORROW BR1,DEPOSIT D1 WHERE D1.CNAME = BR1.CNAME AND  
D1.AMOUNT > 1000 AND BR1.AMOUNT > 2000;
```

/*5.Give names of depositors having the same branch as the branch of Sunil*/

```
SELECT D1.CNAME FROM DEPOSIT D1 WHERE D1.BNAME IN  
(SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME =  
'SUNIL');
```

/*6.Give names of borrowers having loan amount greater than the loan amount of Pramod*/

```
SELECT BR1.CNAME,BR1.AMOUNT FROM BORROW BR1 WHERE  
BR1.AMOUNT > ALL (SELECT BR2.AMOUNT FROM BORROW BR2  
WHERE BR2.CNAME = 'PRAMOD');
```

/*7.Give the name of the customer living in the city where branch of depositor Sunil is located.*/

```
SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT  
B.CITY FROM BRANCH B WHERE B.BNAME IN (SELECT D.BNAME  
FROM DEPOSIT D WHERE D.CNAME='SUNIL'));
```

/*8.Give branch city and living city of Pramod*/

```
SELECT B1.CITY , C1.CITY FROM BRANCH B1,CUSTOMER C1,  
DEPOSIT D1 WHERE C1.CNAME = 'PRAMOD' AND C1.CNAME =  
D1.CNAME AND D1.BNAME = B1.BNAME;
```

/*9.Give branch city of Sunil and branch city of Anil*/

```
SELECT B1.CITY FROM DEPOSIT D1, BRANCH B1 WHERE D1.BNAME  
= B1.BNAME AND D1.CNAME IN ('SUNIL' ,'ANIL');
```

/*10.Give the living city of Anil and the living city of Sunil*/

```
SELECT C1.CNAME, C1.CITY FROM CUSTOMER C1 WHERE  
C1.CNAME = 'ANIL' OR C1.CNAME = 'SUNIL';
```

OUTPUT

```
KRANTI|BOMBAY  
MADHURI|NAGPUR  
NAREN|BOMBAY  
PRAMOD|NAGPUR  
SHIVANI|BOMBAY  
SUNIL|DELHI  
MADHURI  
PRAMOD  
MEHUL|5000.0|MEHUL|3500.0  
PRAMOD|8000.0|PRAMOD|3000.0  
KRANTI|3000.0|KRANTI|5000.0  
SUNIL  
Error: near line 44: near "ALL": syntax error  
BANGALORE|NAGPUR  
NAGPUR  
ANIL|CALCUTTA  
SUNIL|DELHI
```

```
...Program finished with exit code 1  
Press ENTER to exit console.
```