

ABISHA ACCAMMA VINOD
MCA-A
ROLL NO -2

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');
```

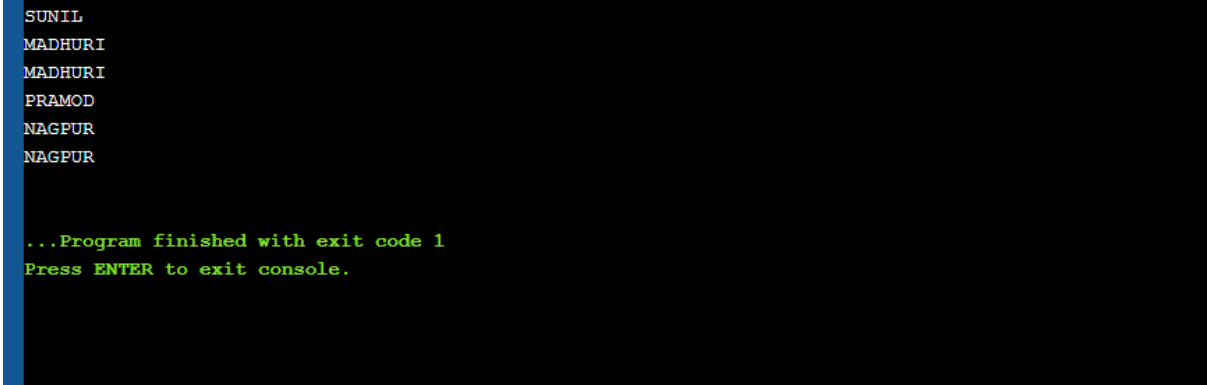
/*7. List the branch cities of Anil and Sunil*/

```
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.
```