

ASHISH WILSON

ROLL NO :28

S2MCA-A

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');
```

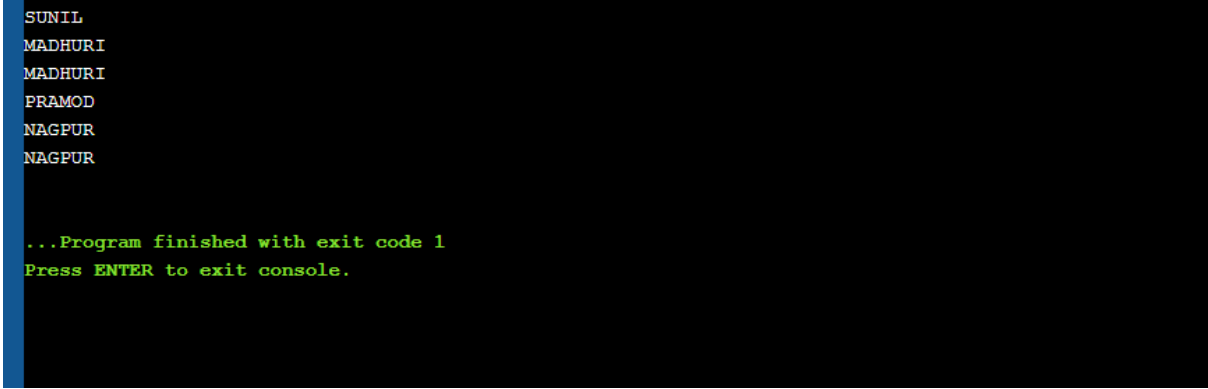
/*7. List the branch cities of Anil and Sunil*/

```
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.
```