Avani P A

S2RMCA -A Batch

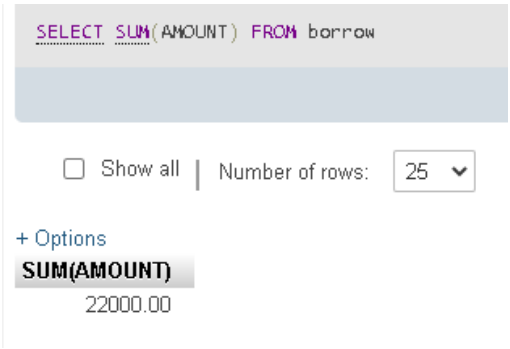
Roll No-32

EXPERIMENT NO.5 : 10/05/2021

AGGREGATE FUNCTIONS

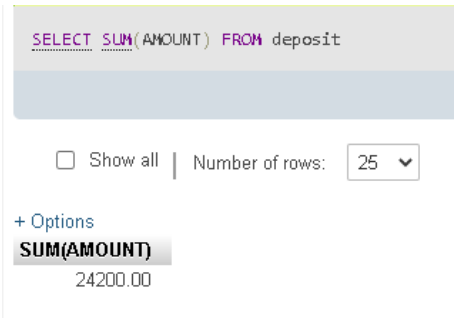
1.List total loan

```
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';

```
SELECT MAX(AMOUNT) FROM borrow WHERE BNAME ='KAROLBAGH'
```

Show all | Number of rows: 25 Filter rows:

+ Options

MAX(AMOUNT)
NULL

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

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

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

Show all | Number of rows: 25 Filter rows: Search thi

+ Options

SUM(AMOUNT)
14700.00

5.List total deposit of customers living in city NAGPUR

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

+ Options

SUM(D1.AMOUNT)
4200.00

6.List maximum deposit of customer living in Bombay

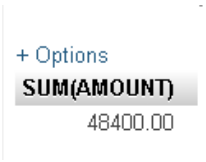
SELECT MAX(D1.AMOUNT) FROM deposit D1 , customer C1 WHERE C1.CITY = 'Bombay' AND C1.CNAME = D1.CNAME;

+ Options

MAX(D1.AMOUNT)
5000.00

7.List total deposit of customer having branch in BOMBAY

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

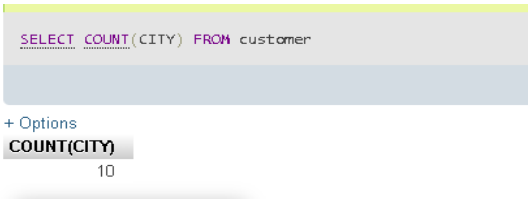


8.Count total number of branch cities

SELECT COUNT(DISTINCT (CITY)) FROM branch ;

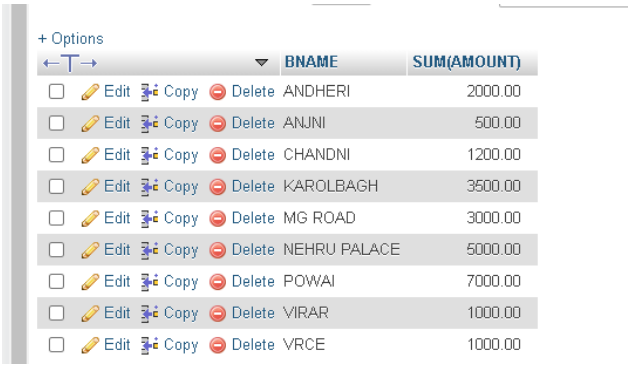
9.Count total number of customers cities

SELECT COUNT (CITY) FROM customer;



10.Give branch names and branch wise deposit

SELECT BNAME , SUM(AMOUNT) FROM desposit 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;

+ Options

	CITY	SUM(D1.AMOUNT)
Edit Copy Delete	BARODA	3500.00
Edit Copy Delete	BOMBAY	6000.00
Edit Copy Delete	CALCUTTA	1000.00
Edit Copy Delete	DELHI	500.00
Edit Copy Delete	NAGPUR	4200.00
Edit Copy Delete	SURAT	2000.00

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

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

+ Options

BNAME	SUM(AMOUNT)
AJNI	10000.00
ANDHERI	4000.00
DHARAMPETH	6000.00
NEHRU PALACE	6000.00
VIRAR	16000.00
VRCE	2000.00

13.Count total number of customers

SELECT count(cname) from CUSTOMER;

+ Options

count(cname)
10

14.Count total number of depositors branch wise

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

+ Options

BName	count(*)
ANDHERI	1
ANJNI	1
CHANDNI	1
KAROLBAGH	1
MG ROAD	1
NEHRU PALACE	1
VIRAR	1
VRCE	1

15.Count total number of depositors branch wise

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

+ Options

BName	count(*)
ANDHERI	1
ANJNI	1
CHANDNI	1
KAROLBAGH	1
MG ROAD	1
NEHRU PALACE	1
VIRAR	1
VRCE	1

16.Give maximum loan from branch VRCE

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

+ Options

MAX(AMOUNT)
1000.00

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));

+ Options

COUNT(DISTINCT (CNAME))
6

EXPERIMENT NO.6 : 10/05/2021

SET OPERATIONS

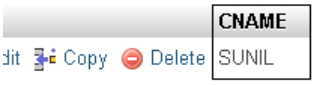
1.

2. List all the customers who are both depositors and borrower

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');

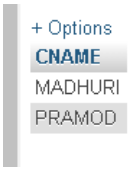


4.List all the customers living in city NAGPUR and having branch city BOMBAY or DELHI

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';



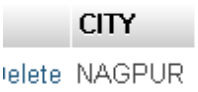
6. List all the depositors living in the city NAGPUR and having branch in city

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'));

EXPERIMENT NO.7 : 10/05/2021

JOIN OR CARTESIAN PRODUCT

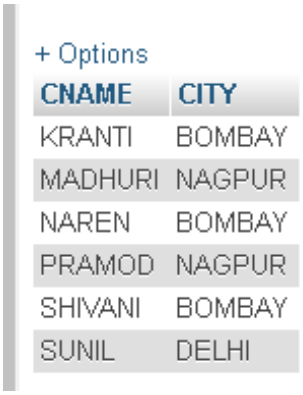
1. Give name of customers having living city BOMBAY and branch city NAGPUR

   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;

CNAME	BNAME	CNAME	CITY	CITY	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;

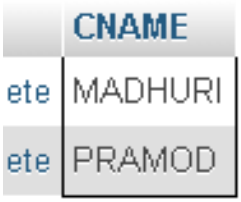


+ Options

CNAME	CITY
KRANTI	BOMBAY
MADHURI	NAGPUR
NAREN	BOMBAY
PRAMOD	NAGPUR
SHIVANI	BOMBAY
SUNIL	DELHI

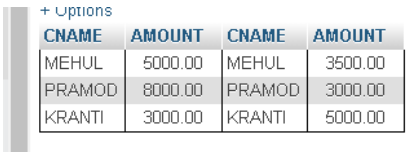
3. Give names of customers who are borrowers as well as depositors and having city NAGPUR.

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



	CNAME
ete	MADHURI
ete	PRAMOD

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;

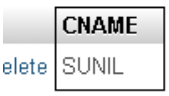


+ Options

CNAME	AMOUNT	CNAME	AMOUNT
MEHUL	5000.00	MEHUL	3500.00
PRAMOD	8000.00	PRAMOD	3000.00
KRANTI	3000.00	KRANTI	5000.00

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');



	CNAME
elete	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');

CNAME	AMOUNT

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

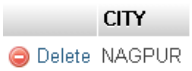
   SELECT C.CNAME FROM CUSTOMER C WHERE C.CITY IN (SELECT B.CITY FROM BRANCH B WHERE B.BNAME IN (SELECT D.BNAME FROM DEPOSIT D WHERE D.CNAME='SUNIL'));

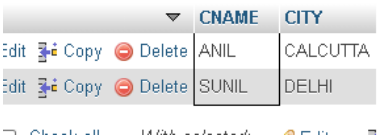
8. Give branch city and living city of Pramod

   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';