

EXPERIMENT NO. 4

AIM

To familiarize with aggregate functions

Questions

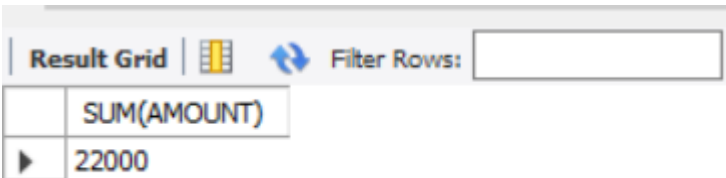
- 1.List total loan
- 2.List total deposit
- 3.List total loan taken from KAROLBAGH branch
- 4.List total deposit of customers having account date later than 1-Jan-96
- 5.List total deposit of customers living in city NAGPUR
- 6.List maximum deposit of customer living in Bombay
- 7.List total deposit of customer having branch in BOMBAY
- 8.Count total number of branch cities
- 9.Count total number of customers cities
- 10.Give branch names and branch wise deposit
- 11.Give city wise name and branch wise deposit
- 12.Give the branch wise loan of customer living in NAGPUR
- 13.Count total number of customers
- 14.Count total number of depositors branch wise
- 15.Count total number of depositors branch wise
- 16.Give maximum loan from branch VRCE
- 17.Give the number of customers who are depositors as well as borrowers

OUTPUT

1. mysql> SELECT SUM(AMOUNT) FROM BORROW;

SUM(AMOUNT)
22000.00

1 row in set (0.00 sec)



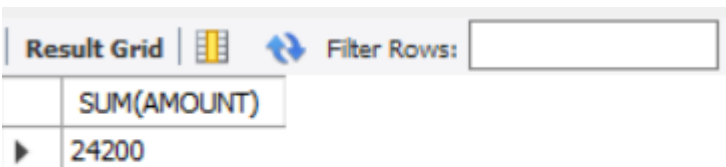
The screenshot shows the MySQL Workbench interface. At the top, there is a toolbar with 'Result Grid', a grid icon, a refresh icon, and a 'Filter Rows:' input field. Below the toolbar, the result grid displays the output of the query 'SELECT SUM(AMOUNT) FROM BORROW;'. The first row has a column header 'SUM(AMOUNT)' and a value '22000'. A small expand/collapse arrow is visible to the left of the first row.

SUM(AMOUNT)
22000

2. mysql> SELECT SUM(AMOUNT) FROM DEPOSIT;

SUM(AMOUNT)
28700.00

1 row in set (0.00 sec)



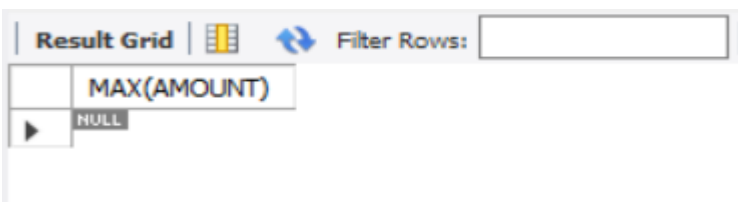
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SUM(AMOUNT)
24200

3. mysql> SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='KAROLBAGH';

MAX(AMOUNT)
NULL

1 row in set (0.00 sec)



The screenshot shows the MySQL Workbench interface. At the top, there is a toolbar with 'Result Grid', a grid icon, a refresh icon, and a 'Filter Rows:' input field. Below the toolbar, the result grid displays the output of the query 'SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='KAROLBAGH';'. The first row has a column header 'MAX(AMOUNT)' and a value 'NULL'. A small expand/collapse arrow is visible to the left of the first row.

MAX(AMOUNT)
NULL

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

SUM(AMOUNT)
27700.00

1 row in set (0.00 sec)

Result Grid		Filter Rows:
	SUM(AMOUNT)	
▶	23200	

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

SUM(D1.AMOUNT)
4200.00

1 row in set (0.00 sec)

Result Grid		Filter Rows:
	SUM(D1.AMOUNT)	
▶	4200	

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

MAX(D1.AMOUNT)
7000.00

1 row in set (0.00 sec)

Result Grid		Filter Rows:
	MAX(D1.AMOUNT)	
▶	5000	

7. mysql> SELECT SUM(AMOUNT) from deposit,BRANCH where city='BOMBAY';

SUM(AMOUNT)
57400.00

1 row in set (0.00 sec)

Result Grid		Filter Rows:
	SUM(AMOUNT)	
▶	48400	

8. mysql> SELECT COUNT(DISTINCT(CITY)) FROM BRANCH ;

COUNT(DISTINCT(CITY))
4

1 row in set (0.00 sec)

Result Grid	Filter Rows:
COUNT(DISTINCT(CITY))	
4	

9. mysql> SELECT count(city) from CUSTOMER;

count(city)
10

1 row in set (0.00 sec)

Result Grid	Filter Rows:
count(city)	
10	

10. mysql> SELECT BNAME , SUM(AMOUNT) FROM DEPOSIT GROUP BY BNAME;

BNAME	SUM(AMOUNT)
VRCE	1000.00
AJNI	5000.00
KAROLBAGH	3500.00
CHANDNI	1200.00
M.G.ROAD	3000.00
ANDHERI	2000.00

VIRAR	1000.00
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NEHRU PLACE	5000.00
POWAI	7000.00

9 rows in set (0.00 sec)

Result Grid			Filter Rows:
	BNAME	SUM(AMOUNT)	
▶	VRCE	1000	
	ANJNI	500	
	KAROLBAGH	3500	
	CHANDNI	1200	
	MG ROAD	3000	
	ANDHERI	2000	
	VIRAR	1000	
	NEHRU PLACE	5000	
	POWAI	7000	

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

CITY	SUM(D1.AMOUNT)
CULCUTTA	1000.00
DELHI	5000.00
BARODA	3500.00
NAGPUR	4200.00
SURAT	2000.00
BOMBAY	13000.00

6 rows in set (0.00 sec)

Result Grid			Filter Rows:
	CITY	SUM(D1.AMOUNT)	
▶	CALCUTTA	1000	
	DELHI	500	
	BARODA	3500	
	NAGPUR	4200	
	SURAT	2000	
	BOMBAY	6000	

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

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

6 rows in set (0.00 sec)

Result Grid			Filter Rows:
	BNAME	SUM(AMOUNT)	
▶	VRCE	2000	
	AJNI	10000	
	DHARAMPETH	6000	
	ANDHERI	4000	
	VIRAR	16000	
	NEHRU PLACE	6000	

13. mysql> SELECT count(cname) from CUSTOMER;

count(cname)
10

1 row in set (0.00 sec)

Result Grid		Filter Rows:
	count(cname)	
▶	10	

14. mysql> select BName, count(*) from DEPOSIT, CUSTOMER where deposit.CNAME = CUSTOMER.CNAME group by BNAME;

BName	count(*)
VRCE	1
AJNI	1
KAROLBAGH	1
CHANDNI	1
M.G.ROAD	1
ANDHERI	1
VIRAR	1
NEHRU PLACE	1
POWAI	1

9 rows in set (0.00 sec)

Result Grid			Filter Rows:
	BName	count(*)	
▶	VRCE	1	
	ANJNI	1	
	KAROLBAGH	1	
	CHANDNI	1	
	MG ROAD	1	
	ANDHERI	1	
	VIRAR	1	
	NEHRU PLACE	1	

15. mysql> SELECT MAX(AMOUNT) FROM BORROW WHERE BNAME ='VRCE';

MAX(AMOUNT)
1000.00

1 row in set (0.00 sec)

Result Grid		Filter Rows:
	MAX(AMOUNT)	
▶	1000	

16. mysql> select count(distinct (cname)) from customer where cname in ((select cname deposite) in (select cname from borrow));

(No column name)
3

1 row in set (0.00 sec)

Result Grid		Filter Rows:
	count(distinct (cname))	
▶	4	