

ADVANCED DBMS LAB

Experiment No.: 4

Aim

To familiarize with aggregate functions

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Roll No : 46

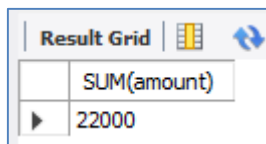
Batch : B

Date: 19-04-2022

Commands

1. List total loan.

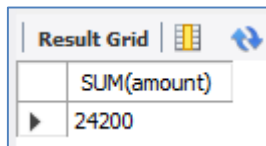
```
SELECT SUM(amount) FROM borrow;
```



	SUM(amount)
▶	22000

2. List total deposit.

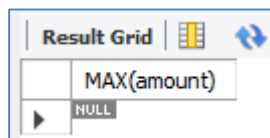
```
SELECT SUM(amount) FROM deposit;
```



	SUM(amount)
▶	24200

3. List total loan taken from KAROLBAGH branch.

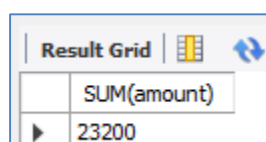
```
SELECT MAX(amount) FROM borrow WHERE b_name ='KAROLBAGH';
```



	MAX(amount)
▶	NULL

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

```
SELECT SUM(amount) FROM deposit WHERE a_date>'1995-03-01';
```



	SUM(amount)
▶	23200

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.c_name = D1.c_name;
```

Result Grid	
	SUM(D1.amount)
▶	4200

6. List maximum deposit of customer living in Bombay.

```
SELECT MAX(D1.amount) FROM deposit D1 , customer C1 WHERE C1.CITY = 'Bombay' AND C1.c_name = D1.c_name;
```

Result Grid	
	MAX(D1.amount)
▶	5000

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

```
SELECT SUM(amount) FROM deposit, branch where city='BOMBAY';
```

Result Grid	
	SUM(amount)
▶	48400

8. Count total number of branch cities.

```
SELECT COUNT(DISTINCT(CITY)) FROM branch ;
```

Result Grid	
	COUNT(DISTINCT(CITY))
▶	4



9. Count total number of customers cities.

```
SELECT count(city) FROM customer;
```

Result Grid	
	count(city)
▶	10



10. Give branch names and branch wise deposit.

```
SELECT b_name, SUM(amount) FROM DEPOSIT GROUP BY b_name;
```

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



11. Give city wise name and branch wise deposit.

```
SELECT C1.CITY, SUM(D1.amount) FROM customer C1, DEPOSIT D1
WHERE D1.c_name = C1.c_name GROUP BY C1.city;
```

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

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

```
SELECT b_name, SUM(amount) FROM borrow, customer WHERE city
='NAGPUR' GROUP BY b_name;
```

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

13. Count total number of customers.

```
SELECT count(c_name) FROM customer;
```

Result Grid	
	count(c_name)
▶	10

14. Count total number of depositors branch wise.

```
SELECT b_name, count(*) FROM deposit, customer WHERE deposit.c_name =
customer.c_name GROUP BY b_name;
```

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

15. Give maximum loan from branch VRCE.

```
SELECT MAX(amount) FROM borrow WHERE b_name ='VRCE';
```

Result Grid	
	MAX(amount)
▶	1000

16. Give the number of customers who are depositors as well as borrowers.

```
SELECT count(DISTINCT (c_name)) FROM customer WHERE c_name in
((SELECT c_name deposit)IN (SELECT c_name FROM borrow));
```

Result Grid	
	count(DISTINCT (c_name))
▶	4