Ex. No:3
Date:1/8/2019

Ex. No. 3 Aggregate and Built in Functions

Aim

To use the aggregate function and bilt in functions.

Description

We have several aggregate functions sum,avg,min,max,count etc.

Questions:

Insert the following tuples in the given tables

Deposit table:

<106,Sandip,Andheri,2000,31-MAR-96>
<107, Shivani, Virar, 1000, 5-SEP-95>
<108,Kranti, Nehru place, 5000, 2-JUL-95>
<109, Naren, powai, 7000,10-AUG-95>

```
SQL> insert into deposit_cs076 values(&actno,'&cname','&bname',&amount,'&date');
Enter value for actno: 106
Enter value for cname: sandip
Enter value for bname: andheri
Enter value for amount: 2000
Enter value for date: 31-mar-96
old   1: insert into deposit_cs076 values(&actno,'&cname','&bname',&amount,'&date')
new   1: insert into deposit_cs076 values(106,'sandip','andheri',2000,'31-mar-96')

1 row created.
```

Branch table:

<Dharampeth, Nagpur>
<M.G.Road,Bangalore>
<Nehru place, Delhi>
<powai, Bombay>

```
SQL> insert into branch_cs076 values('&bname','&city');
Enter value for bname: dharampeth
Enter value for city: nagpur
old   1: insert into branch_cs076 values('&bname','&city')
new   1: insert into branch_cs076 values('dharampeth','nagpur')

1 row created.
```

Customer Table:
<Pramod, Nagpur>
<Sandip, Surat>
<Shivani,Bombay>
<Kranti, Bombay>
<Naren, Bombay>

```
SQL> insert into customer_cs076 values('&cname','&city');
Enter value for cname: pramod
Enter value for city: nagpur
old   1: insert into customer_cs076 values('&cname','&city')
new   1: insert into customer_cs076 values('pramod','nagpur')

1 row created.
```

Borrow table:
<375,Pramod, Virar, 8000>
<481, Kranti, Nehru place,3000>

```
SQL> insert into borrow_cs076 values(&loanno,'&cname','&bname',&amount);
Enter value for loanno: 375
Enter value for cname: pramod
Enter value for bname: virar
Enter value for amount: 8000
old   1: insert into borrow_cs076 values(&loanno,'&cname','&bname',&amount)
new   1: insert into borrow_cs076 values(375,'pramod','virar',8000)

1 row created.
```

1. List the total loan amount taken by borrowers.

```
SQL> select sum(amount) from borrow_cs076;

SUM(AMOUNT)
-----------
      20331
```

2. Find the total deposit done by depositors.

```
SQL> select sum(amount) from deposit_cs076;

SUM(AMOUNT)
-----------
      30970
```

3. List the total loan taken from Andheri branch.

```
SQL> select sum(amount) from deposit_cs076 where bname='andheri';

SUM(AMOUNT)
-----------
       2000
```

4. Write a query to find the total deposit of customer having account date later than 1-jan-96.

```
SQL> select sum(amount) from deposit_cs076 where adate>'1-jan-95';

SUM(AMOUNT)
-----------
      30970
```

5. Find the total deposit of customers living in city Nagpur.

```
SQL> select sum(amount) from deposit_cs076 where bname in (select
bname from branch_cs076 where city='nagpur');

SUM(AMOUNT)
-----------
       5500
```

6. List the max deposit of customers living in Bombay.

```
SQL> select max(amount) from deposit_cs076 where bname in (select bname from branch_cs076 where city='bombay');

MAX(AMOUNT)
-----------
       7000
```

7. Find the total number of branch cities.

```
SQL> select count(city) from branch_cs076;

COUNT(CITY)
-----------
         10
```

8. Find the total number of customer cities.

```
SQL> select count(city) from branch_cs076;

COUNT(CITY)
-----------
         10
```

9. Write a query to display the branch name and branch wise deposit.

```
SQL> select bname,amount from deposit_cs076;

BNAME                    AMOUNT
-------------------- -----------
andheri                    2000
virar                      1000
nehru place                5000
powai                      7000
vrce_ambazari              2000
ajni                       5500
karolbagh                  3850
chandni                    1320
m.g.road                   3300
```

10. Give the branch wise deposit of the customer after account date 1-JAN-96.

```
SQL> select bname,amount from deposit_cs076 where adate>'1-jan-96';

BNAME                    AMOUNT
-------------------- -----------
andheri                    2000
ajni                       5500
m.g.road                   3300
```

11. Find the total count of the customers.

```
SQL> select count(cname) from deposit_cs076;

COUNT(CNAME)
------------
           9
```

12. Find the total count of the depositors branch wise.

```
SQL> select count(cname) from deposit_cs076 group by bname;

COUNT(CNAME)
------------
           1
           1
           1
           1
           1
           1
           1
           1
           1

9 rows selected.
```

13. Write a query to find the maximum loan from branch VRCE.

```
SQL> select max(amount) from borrow_cs076 where bname='vrce';

MAX(AMOUNT)
-----------
       1331
```

14. List the branches having sum of deposit more than 4000.

```
SQL> select bname from deposit_cs076 group by bname having (sum(amount)>4000);

BNAME
------------------
powai
ajni
nehru place
```

15. Display the names of the customer in uppercase.

```
SQL> select upper(cname) from deposit_cs076;

UPPER(CNAME)
------------------
SANDIP
SHIVANI
KRANTI
NAREN
ANIL
SUNIL
MEHUL
MADHURI
PRAMOD
```

16. Display the substring "nil" From "Sunil" from deposit table.

```
SQL> select cname,substr(cname,3,5) from deposit_cs076 where cname='sunil';

CNAME               SUBSTR(CNAME,3,5)
------------------  --------------------
sunil               nil
```