Name:
Class: B.Sc. IT semester-I Div- B
Subject: DBMS
Practical Assignment Aim:6 (SQL aggregate functions)
Date of Practical Assignment: /12/2021


```sql
CREATE TABLE IT_dml
(
Rec_no Number(3),
Num1 number(10,2) Not Null,
Num2 NUMBER(10,2) NOT NULL,
total NUMBER(10,2),
Percent Number(10,2) Default 50.00
);

INSERT INTO IT_dml
VALUES (001,10,20,0,0,0);

INSERT INTO IT_dml
VALUES (002,11,21,0,0,0);

INSERT INTO IT_dml
VALUES (003,12,22,0,0,0);

INSERT INTO IT_dml
VALUES (004,130,235,0,0,0);

INSERT INTO IT_dml
VALUES (005,14,24,0,0,0);

INSERT INTO IT_dml
VALUES (006,15,25,0,0,0);

INSERT INTO IT_dml
VALUES (007,16,26,0,0,0);

INSERT INTO IT_dml
VALUES (008,17,27,0,0,0);

INSERT INTO IT_dml
VALUES (009,18,28,0,0,0);

INSERT INTO IT_dml
VALUES (010,195,495,0,0,0);

INSERT INTO IT_dml
VALUES (010,195,495,0,0);

select * from IT_dml;
```

RECORD_NO   NUM_1 NUM_2 TOTAL_NUM_1_NUM_2 PERCENT_TOTAL
      MULTIPLY_NUM1_NUM2

```
1      10    20    30    0     0
2      11    21    32    0     0
3      12    22    34    0     0
4      130   235   365   0     0
5      14    24    38    0     0
6      15    25    40    0     0
7      16    26    42    0     0
8      17    27    44    0     0
9      18    28    46    0     0
10     195   495   690   0     0
```

```
UPDATE IT_dml
SET TOTAL_NUM_1_NUM_2 = Num_1+Num_2;
```

1.Display record number, num1 and num2 whose total is more than 450.
```
select *
from IT_dml
WHERE TOTAL_NUM_1_NUM_2>450;
RECORD_NO   NUM_1 NUM_2 TOTAL_NUM_1_NUM_2 PERCENT_TOTAL
      MULTIPLY_NUM1_NUM2
10     195   495   690   0     0
```

2.Display the num1, num2 and percentage whose num1 is less than 20 and
num2 is not equal of 20
```
select Num_1 , Num_2 , PERCENT_TOTAL
from IT_dml
WHERE Num_1<20 AND NOT(Num_2=20);
NUM_1 NUM_2 PERCENT_TOTAL
11     21     0
12     22     0
14     24     0
15     25     0
16     26     0
17     27     0
18     28     0
```

3.Display total number of records whose total is more than 450.
```
select TOTAL_NUM_1_NUM_2
from IT_dml
WHERE TOTAL_NUM_1_NUM_2>450;

TOTAL_NUM_1_NUM_2
690
```

4.Display average of num1 and num2
```
select AVG(Num_1),AVG(Num_2)
from IT_dml;
AVG(NUM_1)  AVG(NUM_2)
43.8        92.3
```

5.Display sum of num1 and sum of num2.
```
select SUM(Num_1),SUM(Num_2)
from IT_dml;
```

```
SUM(NUM_1)  SUM(NUM_2)
195        495

6.Display maximum number of num1 and num2.
select MAX(Num_1) , MAX(Num_2)
from IT_dml;
MIN(NUM_1)  MIN(NUM_2)
10        20

7.Display minimum number of num1 and num2.
select MIN(NUM_1),MIN(NUM_2)
from IT_dml;
MIN(NUM_1)        MIN(NUM_2)
30                25

8.Display the value of highest total.
select MAX(TOTAL_NUM_1_NUM_2)
from IT_dml;
MAX(TOTAL_NUM_1_NUM_2)
690

9.Display the total of percentage.[USE of SUM]
select SUM(Percent_TOTAL)
from IT_dml;
```