grouping

1.

SQL> select avg (m1) from students;

AVG(M1)

----------

79.6

SQL> select avg(m1),avg(m2) from students;

AVG(M1) AVG(M2)

---------- ----------

79.6 60.6

SQL> select sum(m1),sum(m2) from students;

SUM(M1) SUM(M2)

---------- ----------

398 303

SQL> select min(m1),min(m2) from students;

MIN(M1) MIN(M2)

---------- ----------

55 15

SQL> select max(m1),count(m2) from students;

MAX(M1) COUNT(M2)

---------- ----------

87 5

2

SQL> select avg(m1),avg(m2),avg(m3),class from students group by class;

AVG(M1) AVG(M2) AVG(M3) CLASS

---------- ---------- ---------- --------------------

75.6666667 63.3333333 86 A

85.5 56.5 56.5 B

SQL> select sum(m1),sum(m2),sum(m3),class from students group by class;

SUM(M1) SUM(M2) SUM(M3) CLASS

---------- ---------- ---------- --------------------

227 190 258 A

171 113 113 B

SQL> select count(m1),count(m2),count(m3),class from students group by class;

COUNT(M1) COUNT(M2) COUNT(M3) CLASS

---------- ---------- ---------- --------------------

3 3 3 A

2 2 2 B

SQL> select min(m1),min(m2),min(m3),class from students group by class;

MIN(M1) MIN(M2) MIN(M3) CLASS

---------- ---------- ---------- --------------------

55 45 65 A

85 15 35 B

SQL> select max(m1),max(m2),max(m3),class from students group by class;

MAX(M1) MAX(M2) MAX(M3) CLASS

---------- ---------- ---------- --------------------

87 89 98 A

86 98 78 B

3

SQL> select max(m1),max(m2),max(m3),class from students where 50 < all(m1,m2,m3)

group by class;

MAX(M1) MAX(M2) MAX(M3) CLASS

---------- ---------- ---------- --------------------

87 89 98 A

86 98 78 B

SQL> select min(m1),min(m2),min(m3),class from students where 50 < all(m1,m2,m3)

group by class;

MIN(M1) MIN(M2) MIN(M3) CLASS

---------- ---------- ---------- --------------------

55 56 95 A

86 98 78 B

SQL> select count(m1),count(m2),count(m3),class from students where 50 < all(m1,

m2,m3) group by class;

COUNT(M1) COUNT(M2) COUNT(M3) CLASS

---------- ---------- ---------- --------------------

2 2 2 A

1 1 1 B

SQL> select sum(m1),sum(m2),avg(m3),class from students where 50 < all(m1,m2,m3)

group by class;

SUM(M1) SUM(M2) AVG(M3) CLASS

---------- ---------- ---------- --------------------

142 145 96.5 A

86 98 78 B

4.

SQL> select avg(m1),sum(m2),count(m3),class from students where 50 < all(m1,m2,m

3) group by class having 60 < all (max(m1),max(m2),max(m3));

AVG(M1) SUM(M2) COUNT(M3) CLASS

---------- ---------- ---------- --------------------

71 145 2 A

86 98 1 B

SQL> select min(m1),max(m2),count(m3),class from students where 50 < all(m1,m2,m

3) group by class having 60 < all (max(m1),max(m2),max(m3));

MIN(M1) MAX(M2) COUNT(M3) CLASS

---------- ---------- ---------- --------------------

55 89 2 A

86 98 1 B