Operators in DBMS

SQL> select \* from arnold

2 ;

ID M1 M2 M3

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

1 66 22 66

2 5 45 98

3 56 456 25

6 55 5665 456

**Arithmetic operator**

**Not set to alise name**

SQL> select id,m1,m2,m3,(m1+m2+m3) from arnold;

ID M1 M2 M3 (M1+M2+M3)

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

1 66 22 66 154

2 5 45 98 148

3 56 456 25 537

6 55 5665 456 6176

**Set alise name**

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold;

ID M1 M2 M3 AVG

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

1 66 22 66 154

2 5 45 98 148

3 56 456 25 537

6 55 5665 456 6176

**Condition**

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) > 600;

ID M1 M2 M3 AVG

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

6 55 5665 456 6176

**-,/ operator**

SQL> select id,m1,m2,m3,(m1-m2/m3) as total from arnold;

ID M1 M2 M3 TOTAL

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

1 66 22 66 65.6666667

2 5 45 98 4.54081633

3 56 456 25 37.76

1. 55 5665 456 42.5767544

**\*operator**

SQL> select id,m1,m2,m3,(m1\*m2/m3) as total from arnold;

ID M1 M2 M3 TOTAL

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

1 66 22 66 22

2 5 45 98 2.29591837

3 56 456 25 1021.44

6 55 5665 456 683.278509

**Char operator**

SQL> select id,(m1||m2||m3) as total from arnold;

ID

----------

TOTAL

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

1

662266

2

54598

3

5645625

ID

----------

TOTAL

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

6

555665456

**Concat operator**

SQL> select id,concat(m1,m2) as total from arnold;

ID

----------

TOTAL

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

1

6622

2

545

3

56456

ID

----------

TOTAL

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

6

555665

**Multiple concat operator**

SQL> select id,concat(m1,concat(m2,m3)) as total from arnold;

ID

----------

TOTAL

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

1

662266

2

54598

3

5645625

ID

----------

TOTAL

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

6

555665456

**Comparison operator**

**= - equal**

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) = 154;

ID M1 M2 M3 AVG

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

1 66 22 66 154

**!=/<>/^= - in equal**

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) != 154;

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) <> 154;

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) ^= 154;

ID M1 M2 M3 AVG

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

2 5 45 98 148

3 56 456 25 537

6 55 5665 456 6176

**<**

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) < 154;

ID M1 M2 M3 AVG

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

2 5 45 98 148

<=

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) <= 154;

ID M1 M2 M3 AVG

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

1 66 22 66 154

2 5 45 98 148

>

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) > 154;

ID M1 M2 M3 AVG

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

3 56 456 25 537

6 55 5665 456 6176

>=

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) >= 154;

ID M1 M2 M3 AVG

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

1 66 22 66 154

3 56 456 25 537

6 55 5665 456 6176

IN

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) in 154;

ID M1 M2 M3 AVG

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

1 66 22 66 154

NOT IN

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) not in 154;

ID M1 M2 M3 AVG

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

2 5 45 98 148

3 56 456 25 537

6 55 5665 456 6176

ANY

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) = any 154

;

ID M1 M2 M3 AVG

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

1 66 22 66 154

ALL

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where (m1+m2+m3) = all 154

;

ID M1 M2 M3 AVG

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

1 66 22 66 154

BETWEEN

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where m1 between 1 and 500

;

ID M1 M2 M3 AVG

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

1 66 22 66 154

2 5 45 98 148

3 56 456 25 537

6 55 5665 456 6176

NOT BETWEEN

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where m1 not between 1 and

30;

ID M1 M2 M3 AVG

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

1 66 22 66 154

3 56 456 25 537

6 55 5665 456 6176

IS NULL

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where m1 is null;

no rows selected (because no value is null)

IS NOT NULL

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where m1 is not null;

ID M1 M2 M3 AVG

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

1 66 22 66 154

2 5 45 98 148

3 56 456 25 537

6 55 5665 456 6176

LOGICAL OPERATOR

NOT

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where not ((m1+m2+m3) betw

een 1 and 300);

ID M1 M2 M3 AVG

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

3 56 456 25 537

6 55 5665 456 6176

AND

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where id = 3 and m1 = 56;

ID M1 M2 M3 AVG

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

3 56 456 25 537

SQL> select id,m1,m2,m3,(m1+m2+m3) as avg from arnold where id = 3 or m1 = 56;

ID M1 M2 M3 AVG

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

3 56 456 25 537