SQL> CREATE TABLE PRODUCTS(

2 PRODUCT\_ID NUMBER,

3 PRODUCT\_TYPE\_ID NUMBER,

4 NAME VARCHAR2(30),

5 PRICE NUMBER,

6 CONSTRAINT PRODUCTS\_PK\_PRODUCT\_ID PRIMARY KEY(PRODUCT\_ID)

7 );

Table created.

SQL> insert into products values (1,1,&#39;Simple TV&#39;,1000.00);

insert into products values (1,1,&#39;Simple TV&#39;,1000.00)

\*

ERROR at line 1:

ORA-00911: invalid character

SQL> insert into products values (1,1,'Simple TV',1000.00);

1 row created.

SQL> insert into products values (2,1,'LED TV',1500.00);

1 row created.

SQL> insert into products values (3,1,'LCD TV',2000.00);

1 row created.

SQL> insert into products values (4,2,'Mobile Phone',1000.00);

1 row created.

SQL> insert into products values (5,2,'Smart Phone',2000.00);

1 row created.

SQL> insert into products values (6,2,'Jio Phone',3000.00);

1 row created.

SQL> insert into products values (7,3,'Simple WM',1500.00);

1 row created.

SQL> insert into products values (8,3,'Automated WM',2000.00);

1 row created.

SQL> insert into products values (9,3,'Semi WM',2500.00);

1 row created.

SQL> SELECT COUNT(PRODUCT\_ID) AS PRODUCT\_COUNT;

SELECT COUNT(PRODUCT\_ID) AS PRODUCT\_COUNT

\*

ERROR at line 1:

ORA-00923: FROM keyword not found where expected

SQL> SELECT COUNT(PRODUCT\_ID) FROM PRODUCTS AS PRODUCT\_COUNT;

SELECT COUNT(PRODUCT\_ID) FROM PRODUCTS AS PRODUCT\_COUNT

\*

ERROR at line 1:

ORA-00933: SQL command not properly ended

SQL> SELECT COUNT(PRODUCT\_ID) AS PRODUCT\_COUNT FROM PRODUCTS;

PRODUCT\_COUNT

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

9

SQL> SELECT \* FROM PRODUCTS;

PRODUCT\_ID PRODUCT\_TYPE\_ID NAME PRICE

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

1 1 Simple TV 1000

2 1 LED TV 1500

3 1 LCD TV 2000

4 2 Mobile Phone 1000

5 2 Smart Phone 2000

6 2 Jio Phone 3000

7 3 Simple WM 1500

8 3 Automated WM 2000

9 3 Semi WM 2500

9 rows selected.

SQL> SELECT COUNT(PRODUCT\_ID) AS PRODUCT\_COUNT,SUM(PRICE) FROM PRODUCTS;

PRODUCT\_COUNT SUM(PRICE)

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

9 16500

SQL> SELECT COUNT(PRODUCT\_TYPE\_ID) FROM PRODUCTS;

COUNT(PRODUCT\_TYPE\_ID)

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

9

SQL> SELECT COUNT(DISTINCT PRODUCT\_TYPE\_ID) FROM PRODUCTS;

COUNT(DISTINCTPRODUCT\_TYPE\_ID)

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

3

SQL> SELECT AVG(PRICE) FROM PRODUCTS;

AVG(PRICE)

----------

1833.33333

SQL> SELECT AVG(DISTINCT PRICE) FROM PRODUCTS;

AVG(DISTINCTPRICE)

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

2000

SQL> SELECT MAX(PRICE),MIN(PRICE) FROM PRODUCTS;

MAX(PRICE) MIN(PRICE)

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

3000 1000

SQL> SELECT COUNT(ROW\_ID) FROM PRODUCTS;

SELECT COUNT(ROW\_ID) FROM PRODUCTS

\*

ERROR at line 1:

ORA-00904: "ROW\_ID": invalid identifier

SQL> SELECT COUNT(ROW) FROM PRODUCTS;

SELECT COUNT(ROW) FROM PRODUCTS

\*

ERROR at line 1:

ORA-00936: missing expression

SQL> SELECT COUNT(1) FROM PRODUCTS;

COUNT(1)

----------

9

SQL> SELECT ASCII(NAME) FROM PRODUCTS;

ASCII(NAME)

-----------

83

76

76

77

83

74

83

65

83

9 rows selected.

SQL> SELECT MAX(ASCII(NAME)),MIN(ASCII(NAME)) FROM PRODUCTS ;

MAX(ASCII(NAME)) MIN(ASCII(NAME))

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

83 65

SQL> SELECT STDDEV(PRICE) FROM PRODUCTS;

STDDEV(PRICE)

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

661.437828

SQL> SELECT VARIANCE(PRICE) FROM PRODUCTS;

VARIANCE(PRICE)

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

437500

SQL> SELECT AVG(PRICE) FROM PRODUCTS GROUP BY PRODUCTS;

SELECT AVG(PRICE) FROM PRODUCTS GROUP BY PRODUCTS

\*

ERROR at line 1:

ORA-00904: "PRODUCTS": invalid identifier

SQL> SELECT AVG(PRICE) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID;

AVG(PRICE)

----------

1500

2000

2000

SQL> SELECT VARIANCE(PRICE) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID;

VARIANCE(PRICE)

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

250000

1000000

250000

SQL> SELECT VARIANCE(PRICE) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID ORDER BY VARIANCE;

SELECT VARIANCE(PRICE) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID ORDER BY VARIANCE

\*

ERROR at line 1:

ORA-00904: "VARIANCE": invalid identifier

SQL> SELECT VARIANCE(PRICE) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID ORDER BY VARIANCE(PRICE);

VARIANCE(PRICE)

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

250000

250000

1000000

SQL> SELECT AVG(PRICE) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500;

AVG(PRICE)

----------

2000

2000

SQL> SELECT AVG(PRICE WHERE PRICE<2000) GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500;

SELECT AVG(PRICE WHERE PRICE<2000) GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> SELECT AVG(PRICE WHERE PRICE<2000) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500;

SELECT AVG(PRICE WHERE PRICE<2000) FROM PRODUCTS GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> SELECT AVG(PRICE) FROM PRODUCTS WHERE PRICE<2000 GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500;

no rows selected

SQL> SELECT AVG(PRICE FROM PRODUCTS WHERE PRICE<2000) GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500;

SELECT AVG(PRICE FROM PRODUCTS WHERE PRICE<2000) GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> SELECT AVG(PRICE FROM PRODUCTS WHERE PRICE<1000) GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500;

SELECT AVG(PRICE FROM PRODUCTS WHERE PRICE<1000) GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500

\*

ERROR at line 1:

ORA-00907: missing right parenthesis

SQL> SELECT AVG(PRICE) FROM PRODUCTS WHERE PRICE<1000 GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1500;

no rows selected

SQL> SELECT AVG(PRICE) FROM PRODUCTS WHERE PRICE<2000 GROUP BY PRODUCT\_TYPE\_ID HAVING AVG(PRICE)>1000;

AVG(PRICE)

----------

1250

1500

SQL> SPOOL OFF;