SQL> SET ECHO ON

SQL> SET FEEDBACK ON

SQL> SET AUTOCOMMIT ON

SQL> --1

Commit Complete

SQL> CREATE TABLE PART AS SELECT P\_CODE AS PT\_CODE,DESCRIPT AS PT\_DESC,P\_PRICE AS PT\_PRICE,V\_CODE FROM PRODUCT WHERE 1=2;

Table PART created.

Commit Complete

SQL> INSERT INTO PART SELECT P\_CODE,DESCRIPT,P\_PRICE,V\_CODE FROM PRODUCT;

17 rows inserted.

Commit Complete

SQL> SELECT CONSTRAINT\_NAME,TABLE\_NAME FROM USER\_CONSTRAINTS WHERE TABLE\_NAME LIKE 'PART';

CONSTRAINT\_NAME TABLE\_NAME

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

SYS\_C0011199 PART

SYS\_C0011200 PART

2 rows selected

Commit Complete

SQL> --2

Commit Complete

SQL> SELECT DISTINCT V\_CODE FROM PART WHERE V\_CODE IS NOT NULL;

V\_CODE

----------

25595

23119

24992

21231

21225

24288

6 rows selected

Commit Complete

SQL> SELECT DISTINCT V\_CODE FROM PART WHERE V\_CODE IS NOT NULL AND PT\_PRICE<=10;

V\_CODE

----------

24992

21231

21225

3 rows selected

Commit Complete

SQL> --3

Commit Complete

SQL> SELECT \* FROM PRODUCT WHERE

P\_PRICE=(SELECT MAX(P\_PRICE) FROM PRODUCT)

OR

P\_PRICE=(SELECT MIN(P\_PRICE) FROM PRODUCT);

P\_COD DESCRIPT P\_DATE QTY P\_MIN P\_PRICE P\_DISC V\_CODE

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

RF100 Rat Tail File 15-12-11 43 20 4.99 0

HC100 Hicut Chain Saw 07-02-12 11 5 256.99 .05 24288

2 rows selected

Commit Complete

SQL> SELECT \* FROM PRODUCT WHERE

(P\_PRICE\*QTY)=(SELECT MAX(P\_PRICE\*QTY) FROM PRODUCT)

OR

(P\_PRICE\*QTY)=(SELECT MIN(P\_PRICE\*QTY) FROM PRODUCT);

P\_COD DESCRIPT P\_DATE QTY P\_MIN P\_PRICE P\_DISC V\_CODE

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

SH100 Sledge Hammer 02-01-12 8 5 14.4 .05

HC100 Hicut Chain Saw 07-02-12 11 5 256.99 .05 24288

2 rows selected

Commit Complete

SQL> --4

Commit Complete

SQL> SELECT C\_CODE,SUM(L\_UNITS\*L\_PRICE) AS TOT\_COST FROM LINE,INVOICE WHERE LINE.INV\_NUM=INVOICE.INV\_NUM GROUP BY C\_CODE;

C\_CODE TOT\_COST

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

10015 34.97

10014 422.77

10011 479.57

10012 153.85

10018 34.87

10020 110

6 rows selected

Commit Complete

SQL> SELECT SUM(L\_UNITS\*L\_PRICE)TOTAL\_INVENTORY FROM LINE;

TOTAL\_INVENTORY

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

1236.03

1 rows selected

Commit Complete

SQL> --5

Commit Complete

SQL> SELECT \* FROM PRODUCT WHERE P\_PRICE>(SELECT AVG(P\_PRICE) FROM PRODUCT) ORDER BY P\_PRICE DESC;

P\_COD DESCRIPT P\_DATE QTY P\_MIN P\_PRICE P\_DISC V\_CODE

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

HC100 Hicut Chain Saw 07-02-12 11 5 256.99 .05 24288

SM48X Steel Malting Mesh 17-01-12 18 5 119.95 .1 25595

AB112 Power Painter 03-11-11 8 5 109.99 0 25595

JB012 Jigsaw 12in Blade 30-12-11 8 5 109.92 .05 24288

JB008 Jigsaw 8in Blade 24-12-11 6 5 99.87 .05 24288

5 rows selected

Commit Complete

SQL> SELECT V\_CODE,COUNT(\*) FROM PRODUCT WHERE V\_CODE IS NOT NULL GROUP BY V\_CODE;

V\_CODE COUNT(\*)

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

25595 3

23119 2

24992 1

21231 1

21225 2

24288 3

6 rows selected

Commit Complete

SQL> --6

Commit Complete

SQL> SELECT V\_CODE,COUNT(P\_CODE) AS CNT,AVG(P\_PRICE) AS AVG\_PRICE FROM PRODUCT GROUP BY V\_CODE HAVING AVG(P\_PRICE)<10;

V\_CODE CNT AVG\_PRICE

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

24992 1 5.75

21231 1 8.45

21225 2 8.47

3 rows selected

Commit Complete

SQL> SELECT V\_CODE,COUNT(P\_CODE) AS CNT,AVG(P\_PRICE) AS AVG\_PRICE,SUM(QTY\*P\_PRICE) AS TOT\_COST FROM PRODUCT

WHERE V\_CODE IS NOT NULL GROUP BY V\_CODE HAVING SUM(QTY\*P\_PRICE)>500 ORDER BY TOT\_COST DESC;

V\_CODE CNT AVG\_PRICE TOT\_COST

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

24288 3 1.6E+02 4305.47

25595 3 89.63 3506.42

21231 1 8.45 2002.65

23119 2 41.97 1611.02

21225 2 8.47 1431.13

24992 1 5.75 1150

6 rows selected

Commit Complete

SQL> --7

Commit Complete

SQL> CREATE OR REPLACE VIEW PRODUCT\_STATS AS

SELECT V\_CODE,SUM(QTY\*P\_PRICE) TOT\_COST,MIN(QTY) MINQTY,MAX(QTY) MAXQTY,AVG(QTY) AS AVGQTY FROM PRODUCT WHERE V\_CODE IS NOT NULL GROUP BY V\_CODE;

View PRODUCT\_STATS created.

Commit Complete

SQL> SELECT \* FROM PRODUCT\_STATS;

V\_CODE TOT\_COST MINQTY MAXQTY AVGQTY

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

25595 3506.42 8 18 1.3E+01

23119 1611.02 15 23 19

24992 1150 200 200 200

21231 2002.65 237 237 237

21225 1431.13 23 172 97.5

24288 4305.47 6 11 8.3E+00

6 rows selected

Commit Complete

SQL> --8

Commit Complete

SQL> SELECT COUNT(\*)FROM INVOICE;

COUNT(\*)

----------

9

1 rows selected

Commit Complete

SQL> SELECT COUNT(CUSTOMER.C\_CODE)FROM CUSTOMER WHERE BALANCE>500;

COUNT(CUSTOMER.C\_CODE)

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

2

1 rows selected

Commit Complete

SQL> --9

Commit Complete

SQL> SELECT C.C\_CODE,C.BALANCE, AVG(L.L\_UNITS\*L.L\_PRICE) AGGREGATE\_PURCHASE

FROM LINE L JOIN INVOICE I ON I.INV\_NUM=L.INV\_NUM

JOIN CUSTOMER C

ON C.C\_CODE=I.C\_CODE

GROUP BY C.C\_CODE,C.BALANCE;

C\_CODE BALANCE AGGREGATE\_PURCHASE

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

10011 0 95.914

10014 0 7.0E+01

10012 345.86 5.1E+01

10018 216.55 17.435

10015 0 17.485

10020 452.99 110

6 rows selected

Commit Complete

SQL> --10

Commit Complete

SQL> SELECT C.C\_CODE,(FNAME||' '||LNAME) AS NAME,L.P\_CODE,BALANCE,(L\_UNITS\*L\_PRICE)PRODUCT\_PURCHASE FROM CUSTOMER C,INVOICE I,LINE L WHERE

L.INV\_NUM=I.INV\_NUM AND I.C\_CODE=C.C\_CODE ORDER BY C.C\_CODE;

C\_CODE NAME P\_COD BALANCE PRODUCT\_PURCHASE

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

10011 Elena Kurtis RF100 0 9.98

10011 Elena Kurtis CH10X 0 9.95

10011 Elena Kurtis PP101 0 70.44

10011 Elena Kurtis SM48X 0 359.85

10011 Elena Kurtis PP101 0 29.35

10012 Kathy Smith CL025 345.86 39.95

10012 Kathy Smith CD00X 345.86 38.95

10012 Kathy Smith SB725 345.86 74.95

10014 Bill Johnson HC100 0 256.99

10014 Bill Johnson CH10X 0 9.95

10014 Bill Johnson JB012 0 109.92

C\_CODE NAME P\_COD BALANCE PRODUCT\_PURCHASE

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

10014 Bill Johnson MC001 0 20.97

10014 Bill Johnson SB725 0 14.99

10014 Bill Johnson CH10X 0 9.95

10015 Julia Samuels RF100 0 4.99

10015 Julia Samuels SB725 0 29.98

10018 Ming Lee CH10X 216.55 19.9

10018 Ming Lee RF100 216.55 14.97

10020 GRACE DAWSON HH15X 452.99 110

19 rows selected

Commit Complete

SQL> --11

Commit Complete

SQL> SELECT C\_CODE,P\_CODE,AVG(L\_UNITS\*L\_PRICE) AS AVERAGE FROM INVOICE I,LINE L WHERE I.INV\_NUM=L.INV\_NUM GROUP BY (P\_CODE,C\_CODE);

C\_CODE P\_COD AVERAGE

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

10011 RF100 9.98

10018 RF100 14.97

10014 CH10X 9.95

10018 CH10X 19.9

10012 CL025 39.95

10015 SB725 29.98

10014 SB725 14.99

10012 CD00X 38.95

10012 SB725 74.95

10011 PP101 49.895

10014 JB012 109.92

C\_CODE P\_COD AVERAGE

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

10014 HC100 256.99

10015 RF100 4.99

10014 MC001 20.97

10011 SM48X 359.85

10011 CH10X 9.95

10020 HH15X 110

17 rows selected

Commit Complete

SQL> --12

Commit Complete

SQL> SELECT INV\_NUM,SUM(L\_UNITS \* L\_PRICE)TOTAL\_PURCHASE FROM LINE GROUP BY INV\_NUM ORDER BY INV\_NUM;

INV\_NUM TOTAL\_PURCHASE

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

1001 24.94

1002 9.98

1003 153.85

1004 34.87

1005 70.44

1006 397.83

1007 34.97

1008 399.15

1009 110

9 rows selected

Commit Complete

SQL> SELECT I.C\_CODE,L.INV\_NUM,SUM(L.L\_UNITS \* L.L\_PRICE)TOTAL\_PURCHASE FROM LINE L,INVOICE I WHERE L.INV\_NUM = I.INV\_NUM GROUP BY L.INV\_NUM,I.C\_CODE ORDER BY I.C\_CODE;

C\_CODE INV\_NUM TOTAL\_PURCHASE

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

10011 1002 9.98

10011 1005 70.44

10011 1008 399.15

10012 1003 153.85

10014 1001 24.94

10014 1006 397.83

10015 1007 34.97

10018 1004 34.87

10020 1009 110

9 rows selected

Commit Complete

SQL> SELECT DISTINCT I.C\_CODE,COUNT(L.INV\_NUM),SUM(L.L\_UNITS\*L.L\_PRICE)TOT\_PURCHASE FROM INVOICE I,LINE L WHERE L.INV\_NUM = I.INV\_NUM GROUP BY I.C\_CODE ORDER BY I.C\_CODE;

C\_CODE COUNT(L.INV\_NUM) TOT\_PURCHASE

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

10011 5 479.57

10012 3 153.85

10014 6 422.77

10015 2 34.97

10018 2 34.87

10020 1 110

6 rows selected

Commit Complete

SQL> --13

Commit Complete

SQL> SELECT DISTINCT INV\_NUM,COUNT(INV\_NUM),SUM(L\_UNITS\*L\_PRICE) TOT,MIN(L\_UNITS\*L\_PRICE)IMIN,MAX(L\_UNITS\*L\_PRICE)IMAX,AVG(L\_UNITS\*L\_PRICE)IAVG

FROM LINE GROUP BY INV\_NUM ORDER BY INV\_NUM;

INV\_NUM COUNT(INV\_NUM) TOT IMIN IMAX IAVG

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

1001 2 24.94 9.95 14.99 12.47

1002 1 9.98 9.98 9.98 9.98

1003 3 153.85 38.95 74.95 5.1E+01

1004 2 34.87 14.97 19.9 17.435

1005 1 70.44 70.44 70.44 70.44

1006 4 397.83 9.95 256.99 99.4575

1007 2 34.97 4.99 29.98 17.485

1008 3 399.15 9.95 359.85 133.05

1009 1 110 110 110 110

9 rows selected

Commit Complete

SQL> --14

Commit Complete

SQL> SELECT C\_CODE,BALANCE FROM CUSTOMER WHERE C\_CODE NOT IN (SELECT C\_CODE FROM INVOICE WHERE C\_CODE IS NOT NULL);

C\_CODE BALANCE

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

10016 221.19

10017 768.93

10013 536.75

10010 0

10019 0

5 rows selected

Commit Complete

SQL> SELECT C.C\_CODE,SUM(L\_UNITS\*L\_PRICE) TOT,MIN(L\_UNITS\*L\_PRICE)MINIMUM,MAX(L\_UNITS\*L\_PRICE)MAXIMUM,AVG(L\_UNITS\*L\_PRICE)AVERAGE

FROM INVOICE I,LINE L ,CUSTOMER C WHERE C.C\_CODE=I.C\_CODE AND I.INV\_NUM=L.INV\_NUM GROUP BY C.C\_CODE;

C\_CODE TOT MINIMUM MAXIMUM AVERAGE

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

10015 34.97 4.99 29.98 17.485

10014 422.77 9.95 256.99 7.0E+01

10011 479.57 9.95 359.85 95.914

10012 153.85 38.95 74.95 5.1E+01

10018 34.87 14.97 19.9 17.435

10020 110 110 110 110

6 rows selected

Commit Complete

SQL> --15

Commit Complete

SQL> SELECT SUM(BALANCE) SUM\_BAL,MIN(BALANCE)MIN\_BAL, MAX(BALANCE)MAX\_BAL, AVG(BALANCE)AVG\_BAL

FROM

(SELECT C\_CODE ,BALANCE FROM CUSTOMER

MINUS

SELECT C.C\_CODE,BALANCE FROM CUSTOMER C,INVOICE I WHERE C.C\_CODE=I.C\_CODE);

SUM\_BAL MIN\_BAL MAX\_BAL AVG\_BAL

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

1526.87 0 768.93 305.374

1 rows selected

Commit Complete

SQL> SELECT (SELECT SUM(P\_PRICE\*QTY) FROM PRODUCT

MINUS

SELECT SUM(P.P\_PRICE\*P.QTY)FROM PRODUCT P,LINE L,INVOICE I WHERE P.P\_CODE = L.P\_CODE AND I.INV\_NUM=L.INV\_NUM) INV\_COST FROM DUAL;

INV\_COST

----------

16234.52

1 rows selected

Commit Complete

--MADE BY YOGESH JOG

SQL> SET FEEDBACK OFF

SQL> SET ECHO OFF

SQL> SPOOL OFF