SQL> --LOGIN TO DATABASE--

SQL> CONNECT

Enter user-name: smit

Connected.

SQL> --CREATING SALESMAN TABLE--

SQL> CREATE TABLE SALESMAN(SNUM NUMBER(4) PRIMARY KEY,SNAME VARCHAR(20),CITY VARCHAR(20),COMMITION NUMBER(2));

Table created.

SQL> --INSERTING DATA INTO TABLE--

SQL> INSERT INTO SALESMAN VALUES(1001,'PIYUSH','LONDON',12);

1 row created.

SQL> --THARE ARE THREE WAYS TO INSERT OTHER TWO ARE FIRED BELOW--

SQL> INSERT INTO SALESMAN (SNUM,COMMITION,SNAME,CITY) VALUES(1002,13,'NIRAJ','SURAT');

1 row created.

SQL> INSERT INTO SALESMAN VALUES(&SNUM,'&SNAME','&CITY',&COMMITION);

Enter value for snum: 1003

Enter value for sname: MITI

Enter value for city: LONDON

Enter value for commition: 11

old 1: INSERT INTO SALESMAN VALUES(&SNUM,'&SNAME','&CITY',&COMMITION)

new 1: INSERT INTO SALESMAN VALUES(1003,'MITI','LONDON',11)

1 row created.

SQL> -- / OR RUN IS USE TO EXECUTE PREVIOUS STATMENT AGAIN --

SQL> /

Enter value for snum: 1004

Enter value for sname: RAJESH

Enter value for city: BARODA

Enter value for commition: 15

old 1: INSERT INTO SALESMAN VALUES(&SNUM,'&SNAME','&CITY',&COMMITION)

new 1: INSERT INTO SALESMAN VALUES(1004,'RAJESH','BARODA',15)

1 row created.

SQL> /

Enter value for snum: 1005

Enter value for sname: ANAND

Enter value for city: NEW DELHI

Enter value for commition: 10

old 1: INSERT INTO SALESMAN VALUES(&SNUM,'&SNAME','&CITY',&COMMITION)

new 1: INSERT INTO SALESMAN VALUES(1005,'ANAND','NEW DELHI',10)

1 row created.

SQL> /

Enter value for snum: 1006

Enter value for sname: RAM

Enter value for city: PATAN

Enter value for commition: 10

old 1: INSERT INTO SALESMAN VALUES(&SNUM,'&SNAME','&CITY',&COMMITION)

new 1: INSERT INTO SALESMAN VALUES(1006,'RAM','PATAN',10)

1 row created.

SQL> /

Enter value for snum: 1007

Enter value for sname: LAXMAN

Enter value for city: BOMBAY

Enter value for commition: 09

old 1: INSERT INTO SALESMAN VALUES(&SNUM,'&SNAME','&CITY',&COMMITION)

new 1: INSERT INTO SALESMAN VALUES(1007,'LAXMAN','BOMBAY',09)

1 row created.

SQL> /\* SALESMAN TABLE CREATED

SQL> LETS CREATE CUSTOMER TABLE \*/

SQL> CREATE TABLE CUSTOMER(CNUM NUMBER(4) PRIMARY KEY,CNAME CHAR(20),CITY CHAR(20),RATING NUMBER(3),SNUM NUMBER(4)

2 REFERENCES SALESMAN(SNUM));

Table created.

SQL> --INSERTING INTO CUSTOMER TABLE--

SQL> INSERT INTO CUSTOMER VALUES (&CNUM,'&CNAME','&CITY',&RATING,&SNUM);

Enter value for cnum: 2001

Enter value for cname: HARDIK

Enter value for city: LONDON

Enter value for rating: 100

Enter value for snum: 1001

old 1: INSERT INTO CUSTOMER VALUES (&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES (2001,'HARDIK','LONDON',100,1001)

1 row created.

SQL> /

Enter value for cnum: 2002

Enter value for cname: GITA

Enter value for city: ROME

Enter value for rating: 200

Enter value for snum: 1003

old 1: INSERT INTO CUSTOMER VALUES (&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES (2002,'GITA','ROME',200,1003)

1 row created.

SQL> /

Enter value for cnum: 2003

Enter value for cname: LAXIT

Enter value for city: SURAT

Enter value for rating: 200

Enter value for snum: 1002

old 1: INSERT INTO CUSTOMER VALUES (&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES (2003,'LAXIT','SURAT',200,1002)

1 row created.

SQL> /

Enter value for cnum: 2004

Enter value for cname: GOVIND

Enter value for city: BOMBAY

Enter value for rating: 300

Enter value for snum: 1002

old 1: INSERT INTO CUSTOMER VALUES (&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES (2004,'GOVIND','BOMBAY',300,1002)

1 row created.

SQL> /

Enter value for cnum: 2005

Enter value for cname: CHAMPAK

Enter value for city: SURAT

Enter value for rating: 300

Enter value for snum: 1007

old 1: INSERT INTO CUSTOMER VALUES (&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES (2005,'CHAMPAK','SURAT',300,1007)

1 row created.

SQL> DELETE FROM CUSTOMER WHERE CNUM=2005;

1 row deleted.

SQL> INSERT INTO CUSTOMER VALUES(&CNUM,'&CNAME','&CITY',&RATING,&SNUM);

Enter value for cnum: 2005

Enter value for cname: CHANDRESH

Enter value for city: LONDON

Enter value for rating: 100

Enter value for snum: 1001

old 1: INSERT INTO CUSTOMER VALUES(&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES(2005,'CHANDRESH','LONDON',100,1001)

1 row created.

SQL> /

Enter value for cnum: 2006

Enter value for cname: CHAMPAK

Enter value for city: SURAT

Enter value for rating: 300

Enter value for snum: 1007

old 1: INSERT INTO CUSTOMER VALUES(&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES(2006,'CHAMPAK','SURAT',300,1007)

1 row created.

SQL> /

Enter value for cnum: 2007

Enter value for cname: PRATIK

Enter value for city: ROME

Enter value for rating: 100

Enter value for snum: 1004

old 1: INSERT INTO CUSTOMER VALUES(&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES(2007,'PRATIK','ROME',100,1004)

1 row created.

SQL> /

Enter value for cnum: 2008

Enter value for cname: MANOJ

Enter value for city: LONDON

Enter value for rating: 200

Enter value for snum: 1007

old 1: INSERT INTO CUSTOMER VALUES(&CNUM,'&CNAME','&CITY',&RATING,&SNUM)

new 1: INSERT INTO CUSTOMER VALUES(2008,'MANOJ','LONDON',200,1007)

1 row created.

SQL> --VALUES ARE INSERTED IN CUSTOMER TABLE--

SQL> --LET'S CREATE ORDERS TABLE--

SQL> CREATE TABLE ORDERS (ONUM NUMBER(4) PRIMARY KEY,AMOUNT NUMBER(6,2),ODATE DATE,CNUM NUMBER(4) REFERENCES CUSTOMER(CNUM),SNUM NUMBER(4) REFERENCES SALESMAN(SNUM));

Table created.

SQL> /

Enter value for onum: 3001

Enter value for amount: 18.69

Enter value for odate: 3/MAR/99

Enter value for cnum: 2007

Enter value for snum: 1007

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3001,18.69,'3/MAR/99',2007,1007)

1 row created.

SQL> /

Enter value for onum: 3002

Enter value for amount: 767.19

Enter value for odate: 5/MAR/97

Enter value for cnum: 2001

Enter value for snum: 1001

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3002,767.19,'5/MAR/97',2001,1001)

1 row created.

SQL> /

Enter value for onum: 3003

Enter value for amount: 1900.10

Enter value for odate: 10/MAR/97

Enter value for cnum: 2007

Enter value for snum: 1004

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3003,1900.10,'10/MAR/97',2007,1004)

1 row created.

SQL> /

Enter value for onum: 3004

Enter value for amount: 5160.45

Enter value for odate: 12/MAR/99

Enter value for cnum: 2003

Enter value for snum: 1002

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3004,5160.45,'12/MAR/99',2003,1002)

1 row created.

SQL> /

Enter value for onum: 3005

Enter value for amount: 1098.25

Enter value for odate: 15/APR/99

Enter value for cnum: 2008

Enter value for snum: 1007

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3005,1098.25,'15/APR/99',2008,1007)

1 row created.

SQL> /

Enter value for onum: 3006

Enter value for amount: 1713.12

Enter value for odate: 10/APR/99

Enter value for cnum: 2008

Enter value for snum: 1007

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3006,1713.12,'10/APR/99',2008,1007)

1 row created.

SQL> /

Enter value for onum: 3007

Enter value for amount: 75.75

Enter value for odate: 20/MAY/96

Enter value for cnum: 2004

Enter value for snum: 1001

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3007,75.75,'20/MAY/96',2004,1001)

1 row created.

SQL> /

Enter value for onum: 3008

Enter value for amount: 4723.00

Enter value for odate: 30/MAY/97

Enter value for cnum: 2006

Enter value for snum: 1001

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3008,4723.00,'30/MAY/97',2006,1001)

1 row created.

SQL> /

Enter value for onum: 3009

Enter value for amount: 1309.95

Enter value for odate: 8/MAY/97

Enter value for cnum: 2004

Enter value for snum: 1002

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3009,1309.95,'8/MAY/97',2004,1002)

1 row created.

SQL> /

Enter value for onum: 3010

Enter value for amount: 9898.87

Enter value for odate: 6/JUN/99

Enter value for cnum: 2006

Enter value for snum: 1001

old 1: INSERT INTO ORDERS VALUES(&ONUM,&AMOUNT,'&ODATE',&CNUM,&SNUM)

new 1: INSERT INTO ORDERS VALUES(3010,9898.87,'6/JUN/99',2006,1001)

1 row created.

SQL> UPDATE ORDERS SET ODATE='30/MAY/99' WHERE ONUM=3008;

1 row updated.

SQL> SELECT \*FROM SALESMAN;

SNUM SNAME CITY COMMITION

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

1001 PIYUSH LONDON 12

1002 NIRAJ SURAT 13

1003 MITI LONDON 11

1004 RAJESH BARODA 15

1005 ANAND NEW DELHI 10

1006 RAM PATAN 10

1007 LAXMAN BOMBAY 9

7 rows selected.

SQL> SELECT \*FROM CUSTOMER;

CNUM CNAME CITY RATING SNUM

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

2001 HARDIK LONDON 100 1001

2002 GITA ROME 200 1003

2003 LAXIT SURAT 200 1002

2004 GOVIND BOMBAY 300 1002

2005 CHANDRESH LONDON 100 1001

2006 CHAMPAK SURAT 300 1007

2007 PRATIK ROME 100 1004

2008 MANOJ LONDON 200 1007

8 rows selected.

SQL> SELECT \*FROM ORDERS;

ONUM AMOUNT ODATE CNUM SNUM

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

3001 18.69 03-MAR-99 2007 1007

3002 767.19 05-MAR-97 2001 1001

3003 1900.1 10-MAR-97 2007 1004

3004 5160.45 12-MAR-99 2003 1002

3005 1098.25 15-APR-99 2008 1007

3006 1713.12 10-APR-99 2008 1007

3007 75.75 20-MAY-96 2004 1001

3008 4723 30-MAY-99 2006 1001

3009 1309.95 08-MAY-97 2004 1002

3010 9898.87 06-JUN-99 2006 1001

10 rows selected.

SQL> /\* LET'S FIRE QUERIES \*/

SQL> -- Q. 1 --

SQL> SELECT ONUM,AMOUNT,ODATE FROM ORDERS;

ONUM AMOUNT ODATE

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

3001 18.69 03-MAR-99

3002 767.19 05-MAR-97

3003 1900.1 10-MAR-97

3004 5160.45 12-MAR-99

3005 1098.25 15-APR-99

3006 1713.12 10-APR-99

3007 75.75 20-MAY-96

3008 4723 30-MAY-99

3009 1309.95 08-MAY-97

3010 9898.87 06-JUN-99

10 rows selected.

SQL> --Q. 2 --

SQL> SELECT \*FROM CUSTOMER WHERE SNUM=1001;

CNUM CNAME CITY RATING SNUM

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

2001 HARDIK LONDON 100 1001

2005 CHANDRESH LONDON 100 1001

SQL> --Q.3 --

SQL> SELECT CITY,SNAME,CNUM,COMMITION FROM SALESMAN;

SELECT CITY,SNAME,CNUM,COMMITION FROM SALESMAN

\*

ERROR at line 1:

ORA-00904: "CNUM": invalid identifier

SQL> SELECT CITY,SNAME,SNUM,COMMITION FROM SALESMAN;

CITY SNAME SNUM COMMITION

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

LONDON PIYUSH 1001 12

SURAT NIRAJ 1002 13

LONDON MITI 1003 11

BARODA RAJESH 1004 15

NEW DELHI ANAND 1005 10

PATAN RAM 1006 10

BOMBAY LAXMAN 1007 9

7 rows selected.

SQL> SELECT CNAME,RATING FROM CUSTOMER WHERE CITY='SURAT';

CNAME RATING

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

LAXIT 200

CHAMPAK 300

SQL> SELECT SNUM,AMOUNT FROM ORDERS;

SNUM AMOUNT

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

1007 18.69

1001 767.19

1004 1900.1

1002 5160.45

1007 1098.25

1007 1713.12

1001 75.75

1001 4723

1002 1309.95

1001 9898.87

10 rows selected.

SQL> SELECT \*FROM ORDERS WHERE AMOUNT>1000;

ONUM AMOUNT ODATE CNUM SNUM

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

3003 1900.1 10-MAR-97 2007 1004

3004 5160.45 12-MAR-99 2003 1002

3005 1098.25 15-APR-99 2008 1007

3006 1713.12 10-APR-99 2008 1007

3008 4723 30-MAY-99 2006 1001

3009 1309.95 08-MAY-97 2004 1002

3010 9898.87 06-JUN-99 2006 1001

7 rows selected.

SQL> --Q 7--

SQL> SELECT SNAME,CITY,COMMITION FROM SALESMAN WHERE CITY='LONDON' AND COMMITION>10;

SNAME CITY COMMITION

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

PIYUSH LONDON 12

MITI LONDON 11

SQL> SELECT \*FROM CUSTOMER WHERE RATING>100 OR CITY<>'ROME';

CNUM CNAME CITY RATING SNUM

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

2001 HARDIK LONDON 100 1001

2002 GITA ROME 200 1003

2003 LAXIT SURAT 200 1002

2004 GOVIND BOMBAY 300 1002

2005 CHANDRESH LONDON 100 1001

2006 CHAMPAK SURAT 300 1007

2008 MANOJ LONDON 200 1007

7 rows selected.

SQL> SELECT \*FROM CUSTOMER WHERE RATING>100 AND CITY<>'ROME';

CNUM CNAME CITY RATING SNUM

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

2003 LAXIT SURAT 200 1002

2004 GOVIND BOMBAY 300 1002

2006 CHAMPAK SURAT 300 1007

2008 MANOJ LONDON 200 1007

SQL> SELECT \*FROM CUSTOMER WHERE NOT(RATING<=100 OR CITY<>'ROME');

CNUM CNAME CITY RATING SNUM

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

2002 GITA ROME 200 1003

SQL> SELECT \*FROM CUSTOMER WHERE NOT(RATING<=100 OR CITY='ROME');

CNUM CNAME CITY RATING SNUM

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

2003 LAXIT SURAT 200 1002

2004 GOVIND BOMBAY 300 1002

2006 CHAMPAK SURAT 300 1007

2008 MANOJ LONDON 200 1007

SQL> --Q 9--

SQL> SELECT \*FROM ORDERS WHERE AMOUNT>1000 AND NOT(SNUM=1006 OR ODATE='10/MAR/97');

ONUM AMOUNT ODATE CNUM SNUM

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

3004 5160.45 12-MAR-99 2003 1002

3005 1098.25 15-APR-99 2008 1007

3006 1713.12 10-APR-99 2008 1007

3008 4723 30-MAY-99 2006 1001

3009 1309.95 08-MAY-97 2004 1002

3010 9898.87 06-JUN-99 2006 1001

6 rows selected.

SQL> SELECT \*FROM ORDERS WHERE ODATE IN('3/MAR/1999','4/MAR/1999','6/MAR/1900');

ONUM AMOUNT ODATE CNUM SNUM

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

3001 18.69 03-MAR-99 2007 1007

SQL> --Q 11--

SQL> SELECT \*FROM CUSTOMER WHERE CNAME LIKE '%C';

no rows selected

SQL> SELECT \*FROM CUSTOMER WHERE CNAME LIKE 'C%';

CNUM CNAME CITY RATING SNUM

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

2005 CHANDRESH LONDON 100 1001

2006 CHAMPAK SURAT 300 1007

SQL> --Q 12--

SQL> SELECT \*FROM CUSTOMER WHERE CNAME LIKE 'A%' OR CNAME LIKE 'B%' OR CNAME LIKE 'C%';

CNUM CNAME CITY RATING SNUM

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

2005 CHANDRESH LONDON 100 1001

2006 CHAMPAK SURAT 300 1007

SQL> SELECT \*FROM ORDERS WHERE AMOUNT=NULL;

no rows selected

SQL> --Q 14--

SQL> SELECT SNUM,MAX(AMOUNT)"LARGEST ORDERS" FROM ORDERS WHERE SNUM IN(1002,1007) GROUP BY SNUM;

SNUM LARGEST ORDERS

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

1002 5160.45

1007 1713.12

SQL> SELECT COUNT(ODATE)"TOTAL ORDERS" FROM ORDERS WHERE ODATE='10/MAR/97';

TOTAL ORDERS

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

1

SQL> --Q 16--

SQL> SELECT SUM(AMOUNT)"TOTAL AMOUNT ORDERED" FROM ORDERS;

TOTAL AMOUNT ORDERED

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

26665.37

SQL> SELECT AVG(AMOUNT)"AVG AMOUNT ORDERED" FROM ORDERS;

AVG AMOUNT ORDERED

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

2666.537

SQL> --Q 18--

SQL> SELECT COUNT(DISTINCT(SNUM)) FROM ORDERS;

COUNT(DISTINCT(SNUM))

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

4

SQL> SELECT COUNT(DISTINCT(SNUM))"TOTAL SALESMAN HAVING ORDERS" FROM ORDERS;

TOTAL SALESMAN HAVING ORDERS

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

4

SQL> --Q 19--

SQL> SELECT SNUM,MAX(AMOUNT) FROM ORDERS GROUP BY SNUM;

SNUM MAX(AMOUNT)

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

1001 9898.87

1002 5160.45

1007 1713.12

1004 1900.1

SQL> --Q 20--

SQL> SELECT SNUM,MAX(AMOUNT) FROM ORDERS WHERE ODATE='10/MAR/97' GROUP BY SNUM;

SNUM MAX(AMOUNT)

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

1004 1900.1

SQL> SELECT COUNT(DISTINCT(CITY))"DIFF NOT NULL CITY" FROM CUSTOMER;

DIFF NOT NULL CITY

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

4

SQL> --Q 22--

SQL> SELECT CNUM,MIN(AMOUNT) FROM ORDERS GROUP BY CNUM;

CNUM MIN(AMOUNT)

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

2001 767.19

2006 4723

2007 18.69

2003 5160.45

2004 75.75

2008 1098.25

6 rows selected.

SQL> SELECT \*FROM CUSTOMER WHERE CNAME LIKE 'G%' ORDER BY CNAME ASC;

CNUM CNAME CITY RATING SNUM

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

2002 GITA ROME 200 1003

2004 GOVIND BOMBAY 300 1002

SQL> SELECT \*FROM CUSTOMER WHERE CNAME LIKE 'G%' ORDER BY CNAME DESC;

CNUM CNAME CITY RATING SNUM

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

2004 GOVIND BOMBAY 300 1002

2002 GITA ROME 200 1003

SQL> --Q 24 --

SQL> SELECT ODATE,COUNT(SNUM) FROM ORDERS GROUP BY ODATE;

ODATE COUNT(SNUM)

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

06-JUN-99 1

05-MAR-97 1

15-APR-99 1

08-MAY-97 1

10-APR-99 1

03-MAR-99 1

12-MAR-99 1

10-MAR-97 1

20-MAY-96 1

30-MAY-99 1

10 rows selected.

SQL> SELECT S.SNUM,S.SNAME,((O.AMOUNT\*S.COMMITION)/100)"CALCULATED AMOUNT" FROM SALESMAN S,ORDERS O;

SNUM SNAME CALCULATED AMOUNT

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

1001 PIYUSH 2.2428

1001 PIYUSH 92.0628

1001 PIYUSH 228.012

1001 PIYUSH 619.254

1001 PIYUSH 131.79

1001 PIYUSH 205.5744

1001 PIYUSH 9.09

1001 PIYUSH 566.76

1001 PIYUSH 157.194

1001 PIYUSH 1187.8644

1002 NIRAJ 2.4297

SNUM SNAME CALCULATED AMOUNT

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

1002 NIRAJ 99.7347

1002 NIRAJ 247.013

1002 NIRAJ 670.8585

1002 NIRAJ 142.7725

1002 NIRAJ 222.7056

1002 NIRAJ 9.8475

1002 NIRAJ 613.99

1002 NIRAJ 170.2935

1002 NIRAJ 1286.8531

1003 MITI 2.0559

1003 MITI 84.3909

SNUM SNAME CALCULATED AMOUNT

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

1003 MITI 209.011

1003 MITI 567.6495

1003 MITI 120.8075

1003 MITI 188.4432

1003 MITI 8.3325

1003 MITI 519.53

1003 MITI 144.0945

1003 MITI 1088.8757

1004 RAJESH 2.8035

1004 RAJESH 115.0785

1004 RAJESH 285.015

SNUM SNAME CALCULATED AMOUNT

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

1004 RAJESH 774.0675

1004 RAJESH 164.7375

1004 RAJESH 256.968

1004 RAJESH 11.3625

1004 RAJESH 708.45

1004 RAJESH 196.4925

1004 RAJESH 1484.8305

1005 ANAND 1.869

1005 ANAND 76.719

1005 ANAND 190.01

1005 ANAND 516.045

SNUM SNAME CALCULATED AMOUNT

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

1005 ANAND 109.825

1005 ANAND 171.312

1005 ANAND 7.575

1005 ANAND 472.3

1005 ANAND 130.995

1005 ANAND 989.887

1006 RAM 1.869

1006 RAM 76.719

1006 RAM 190.01

1006 RAM 516.045

1006 RAM 109.825

SNUM SNAME CALCULATED AMOUNT

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

1006 RAM 171.312

1006 RAM 7.575

1006 RAM 472.3

1006 RAM 130.995

1006 RAM 989.887

1007 LAXMAN 1.6821

1007 LAXMAN 69.0471

1007 LAXMAN 171.009

1007 LAXMAN 464.4405

1007 LAXMAN 98.8425

1007 LAXMAN 154.1808

SNUM SNAME CALCULATED AMOUNT

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

1007 LAXMAN 6.8175

1007 LAXMAN 425.07

1007 LAXMAN 117.8955

1007 LAXMAN 890.8983

70 rows selected.

SQL> SELECT S.SNUM,S.SNAME,((O.AMOUNT\*S.COMMITION)/100)"CALCULATED AMOUNT" FROM SALESMAN S,ORDERS O WHERE S.SNUM=O.SNUM;

SNUM SNAME CALCULATED AMOUNT

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

1007 LAXMAN 1.6821

1001 PIYUSH 92.0628

1004 RAJESH 285.015

1002 NIRAJ 670.8585

1007 LAXMAN 98.8425

1007 LAXMAN 154.1808

1001 PIYUSH 9.09

1001 PIYUSH 566.76

1002 NIRAJ 170.2935

1001 PIYUSH 1187.8644

10 rows selected.

SQL> SELECT 'THERE ARE ' ||COUNT(ODATE) ||' ORDERS FOR THE '|| ODATE FROM ORDERS GROUP BY ODATE;

'THEREARE'||COUNT(ODATE)||'ORDERSFORTHE'||ODATE

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

THERE ARE 1 ORDERS FOR THE 06-JUN-99

THERE ARE 1 ORDERS FOR THE 05-MAR-97

THERE ARE 1 ORDERS FOR THE 15-APR-99

THERE ARE 1 ORDERS FOR THE 08-MAY-97

THERE ARE 1 ORDERS FOR THE 10-APR-99

THERE ARE 1 ORDERS FOR THE 03-MAR-99

THERE ARE 1 ORDERS FOR THE 12-MAR-99

THERE ARE 1 ORDERS FOR THE 10-MAR-97

THERE ARE 1 ORDERS FOR THE 20-MAY-96

THERE ARE 1 ORDERS FOR THE 30-MAY-99

10 rows selected.

SQL> SELECT O.ONUM,S.SNUM,((O.AMOUNT\*12)/100)"CALCULATED CUMMISSION" FROM ORDERS O,SALESMAN S WHERE O.SNUM=S.SNUM;

ONUM SNUM CALCULATED CUMMISSION

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

3001 1007 2.2428

3002 1001 92.0628

3003 1004 228.012

3004 1002 619.254

3005 1007 131.79

3006 1007 205.5744

3007 1001 9.09

3008 1001 566.76

3009 1002 157.194

3010 1001 1187.8644

10 rows selected.

SQL> SELECT 'HIGHEST RATING ' ||MAX(RATING)|| ' IS IN THE CITY ' ||CITY FROM CUSTOMER GROUP BY CITY;

'HIGHESTRATING'||MAX(RATING)||'ISINTHECITY'||CITY

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

HIGHEST RATING 200 IS IN THE CITY ROME

HIGHEST RATING 300 IS IN THE CITY SURAT

HIGHEST RATING 200 IS IN THE CITY LONDON

HIGHEST RATING 300 IS IN THE CITY BOMBAY

SQL> SELECT 'LOWEST RATING ' ||MIN(RATING)|| ' IS IN THE CITY ' ||CITY FROM CUSTOMER GROUP BY CITY;

'LOWESTRATING'||MIN(RATING)||'ISINTHECITY'||CITY

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

LOWEST RATING 100 IS IN THE CITY ROME

LOWEST RATING 200 IS IN THE CITY SURAT

LOWEST RATING 100 IS IN THE CITY LONDON

LOWEST RATING 300 IS IN THE CITY BOMBAY

SQL> SELECT \*FROM CUSTOMER ORDER BY RATING DESC;

CNUM CNAME CITY RATING SNUM

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

2004 GOVIND BOMBAY 300 1002

2006 CHAMPAK SURAT 300 1007

2003 LAXIT SURAT 200 1002

2008 MANOJ LONDON 200 1007

2002 GITA ROME 200 1003

2005 CHANDRESH LONDON 100 1001

2007 PRATIK ROME 100 1004

2001 HARDIK LONDON 100 1001

8 rows selected.

SQL> SELECT ODATE,SUM(AMOUNT) FROM ORDERS GROUP BY ODATE;

ODATE SUM(AMOUNT)

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

06-JUN-99 9898.87

05-MAR-97 767.19

15-APR-99 1098.25

08-MAY-97 1309.95

10-APR-99 1713.12

03-MAR-99 18.69

12-MAR-99 5160.45

10-MAR-97 1900.1

20-MAY-96 75.75

30-MAY-99 4723

10 rows selected.

SQL> SELECT S.SNAME,C.CNAME FROM SALESMAN S,CUSTOMER C WHERE S.SNUM=C.CNUM;

no rows selected

SQL> SELECT S.SNAME,C.CNAME FROM SALESMAN S,CUSTOMER C WHERE S.SNUM=C.SNUM;

SNAME CNAME

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

PIYUSH HARDIK

MITI GITA

NIRAJ LAXIT

NIRAJ GOVIND

PIYUSH CHANDRESH

LAXMAN CHAMPAK

RAJESH PRATIK

LAXMAN MANOJ

8 rows selected.

SQL> SELECT C.CNAME,S.SNAME,S.CITY FROM CUSTOMER C,SALESMAN S WHERE S.SNUM=C.CNUM AND S.CITY=C.CITY;

no rows selected

SQL> SELECT C.CNAME,S.SNAME,S.CITY FROM CUSTOMER C,SALESMAN S WHERE S.SNUM=C.CNUM OR S.CITY=C.CITY;

no rows selected

SQL> SELECT O.ONUM,O.AMOUNT,C.CITY,S.CITY FROM ORDERS O,CUSTOMER C,SALESMAN S WHERE S.SNUM=O.SNUM AND C.CNUM=O.CNUM AND C.CITY<>S.CITY;

ONUM AMOUNT CITY CITY

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

3002 767.19 LONDON LONDON

3004 5160.45 SURAT SURAT

3009 1309.95 BOMBAY SURAT

3007 75.75 BOMBAY LONDON

3010 9898.87 SURAT LONDON

3008 4723 SURAT LONDON

3003 1900.1 ROME BARODA

3001 18.69 ROME BOMBAY

3006 1713.12 LONDON BOMBAY

3005 1098.25 LONDON BOMBAY

10 rows selected.

SQL> SELECT \*FROM CUSTOMER WHERE SNUM IN(SELECT SNUM FROM SALESMAN WHERE COMMITION>12);

CNUM CNAME CITY RATING SNUM

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

2003 LAXIT SURAT 200 1002

2004 GOVIND BOMBAY 300 1002

2007 PRATIK ROME 100 1004

SQL> SELECT \* FROM SALESMAN WHERE SNUM IN(SELECT SNUM FROM CUSTOMER WHERE RATING>100);

SNUM SNAME CITY COMMITION

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

1003 MITI LONDON 11

1002 NIRAJ SURAT 13

1007 LAXMAN BOMBAY 9

SQL> SELECT O.SNUM,S.SNAME,(O.AMOUNT\*S.COMMITION)/100"CALCULATED AMOUNT" FROM ORDERS O,SALESMAN S WHERE O.SNUM IN

2 (SELECT SNUM FROM CUSTOMER WHERE RATING>100) AND S.SNUM=O.SNUM;

SNUM SNAME CALCULATED AMOUNT

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

1002 NIRAJ 170.2935

1002 NIRAJ 670.8585

1007 LAXMAN 154.1808

1007 LAXMAN 98.8425

1007 LAXMAN 1.6821

SQL> SELECT C.CNUM,S.SNUM,C.RATING,(O.AMOUNT\*S.COMMITION)/100 CUSTOMER C,SALESMAN S,ORDERS O WHERE

2 (SELECT SNUM FROM CUSTOMER WHERE RATING>100) AND S.SNUM=O.SNUM;

SELECT C.CNUM,S.SNUM,C.RATING,(O.AMOUNT\*S.COMMITION)/100 CUSTOMER C,SALESMAN S,ORDERS O WHERE

\*

ERROR at line 1:

ORA-00923: FROM keyword not found where expected

SQL> SELECT C.CNUM,S.SNUM,C.RATING,(O.AMOUNT\*S.COMMITION)/100 FROM CUSTOMER C,SALESMAN S,ORDERS O WHERE

2 C.CNUM=O.CNUM AND S.SNUM=O.SNUM AND C.RATING>100;

CNUM SNUM RATING (O.AMOUNT\*S.COMMITION)/100

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

2006 1001 300 1187.8644

2006 1001 300 566.76

2004 1001 300 9.09

2004 1002 300 170.2935

2003 1002 200 670.8585

2008 1007 200 154.1808

2008 1007 200 98.8425

7 rows selected.

SQL> SELECT C.CNAME,CC.CNAME,C.RATING FROM CUSTOMER C,CUSTOMER CC WHERE C.RATING=CC.RATING AND C.CNAME>CC.CNAME;

CNAME CNAME RATING

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

PRATIK HARDIK 100

MANOJ GITA 200

LAXIT GITA 200

MANOJ LAXIT 200

PRATIK CHANDRESH 100

HARDIK CHANDRESH 100

GOVIND CHAMPAK 300

7 rows selected.

SQL> SELECT \*FROM CUSTOMER WHERE CITY IN(SELECT CITY FROM SALESMAN WHERE SNAME='NIRAJ');

no rows selected

SQL> SELECT S.SNUM,S.SNAME,C.CNAME FROM SALESMAN S,CUSTOMER C WHERE S.SNUM=C.SNUM;

SNUM SNAME CNAME

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

1001 PIYUSH HARDIK

1003 MITI GITA

1002 NIRAJ LAXIT

1002 NIRAJ GOVIND

1001 PIYUSH CHANDRESH

1007 LAXMAN CHAMPAK

1004 RAJESH PRATIK

1007 LAXMAN MANOJ

8 rows selected.

SQL> SELECT C.CNAME,CC.CNAME,S.SNAME,S.SNUM FROM CUSTOMER C,CUSTOMER CC,SALESMAN S WHERE S.SNUM=C.CNUM AND C.CNAME>CC.CNAME;

no rows selected

SQL> --Q 40--

SQL> SELECT S.SNAME,SS.SNAME FROM SALESMAN S,SALESMAN SS WHERE S.CITY=SS.CITY AND S.SNUM=SS.SNUM;

SNAME SNAME

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

PIYUSH PIYUSH

NIRAJ NIRAJ

MITI MITI

RAJESH RAJESH

ANAND ANAND

RAM RAM

LAXMAN LAXMAN

7 rows selected.

SQL> SELECT CNUM,CNAME,CITY FROM CUSTOMER WHERE RATING IN(SELECT RATING FROM CUSTOMER WHERE CNAME='HARDIK');

CNUM CNAME CITY

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

2007 PRATIK ROME

2005 CHANDRESH LONDON

2001 HARDIK LONDON

SQL> SELECT \* FROM ORDERS WHERE CNUM IN(SELECT CNUM FROM CUSTOMER WHERE CNAME='MITI');

no rows selected

SQL> SELECT \* FROM ORDERS WHERE SNUM IN(SELECT SNUM FROM SALESMAN WHERE SNAME='MITI');

no rows selected

SQL> SELECT \*FROM SALESMAN;

SNUM SNAME CITY COMMITION

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

1001 PIYUSH LONDON 12

1002 NIRAJ SURAT 13

1003 MITI LONDON 11

1004 RAJESH BARODA 15

1005 ANAND NEW DELHI 10

1006 RAM PATAN 10

1007 LAXMAN BOMBAY 9

7 rows selected.

SQL> SELECT \* FROM ORDERS WHERE SNUM IN(SELECT SNUM FROM SALESMAN WHERE SNAME='MITI');

no rows selected

SQL> SELECT \*FROM ORDERS WHERE SNUM IN

2 (SELECT SNUM FROM SALESMAN WHERE CITY='BARODA');

ONUM AMOUNT ODATE CNUM SNUM

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

3003 1900.1 10-MAR-97 2007 1004

SQL> SELECT \*FROM ORDERS WHERE CNUM IN

2 (SELECT SNUM FROM SALE

3

SQL> SELECT \*FROM ORDERS WHERE SNUM IN (SELECT SNUM FROM SALESMAN WHERE SNUM IN

2 (SELECT SNUM FROM CUSTOMER WHERE CNAME='HARDIK'));

ONUM AMOUNT ODATE CNUM SNUM

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

3010 9898.87 06-JUN-99 2006 1001

3008 4723 30-MAY-99 2006 1001

3007 75.75 20-MAY-96 2004 1001

3002 767.19 05-MAR-97 2001 1001

SQL> SELECT \*FROM ORDERS WHERE AMOUNT>(SELECT AVG(AMOUNT) FROM ORDERS WHERE ODATE='10/APR/97');

no rows selected

SQL> SELECT \* FROM ORDERS WHERE SNUM IN

2 (SELECT SNUM FROM SALESMAN WHERE CITY='LONDON');

ONUM AMOUNT ODATE CNUM SNUM

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

3002 767.19 05-MAR-97 2001 1001

3007 75.75 20-MAY-96 2004 1001

3008 4723 30-MAY-99 2006 1001

3010 9898.87 06-JUN-99 2006 1001

SQL> SELECT SNUM,COMMITION FROM SALESMAN WHERE SNUM IN

2 (SELECT SNUM FROM CUSTOMER WHERE CITY='LONDON');

SNUM COMMITION

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

1001 12

1007 9

SQL> SELECT \*FROM CUSTOMER WHERE CNUM>

2 (SELECT SNUM+1000 FROM SALESMAN WHERE SNAME='NIRAJ');

CNUM CNAME CITY RATING SNUM

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

2003 LAXIT SURAT 200 1002

2004 GOVIND BOMBAY 300 1002

2005 CHANDRESH LONDON 100 1001

2006 CHAMPAK SURAT 300 1007

2007 PRATIK ROME 100 1004

2008 MANOJ LONDON 200 1007

6 rows selected.

SQL> SELECT COUNT(SNUM)"RATING" FROM CUSTOMER WHERE RATING>

2 (SELECT AVG(RATING) FROM CUSTOMER WHERE CITY ='SURAT');

RATING

----------

2

SQL> SELECT \* FROM ORDERS WHERE CNUM IN

2 (SELECT CNUM FROM CUSTOMER WHERE CNAME ='CHANDRESH');

no rows selected

SQL> SELECT CNAME,RATING FROM CUSTOMER WHERE CNUM IN

2 (SELECT CNUM FROM ORDERS WHERE AMOUNT>

3 (SELECT AVG(AMOUNT) FROM ORDERS));

CNAME RATING

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

CHAMPAK 300

LAXIT 200

SQL> SELECT \*FROM CUSTOMER WHERE CNUM IN

2 (SELECT CNUM FROM ORDERS WHERE ODATE='3/OCT.97');

no rows selected

SQL> SELECT SNAME,SNUM FROM SALESMAN WHERE SNUM IN(SELECT SNUM FROM CUSTOMER);

SNAME SNUM

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

PIYUSH 1001

MITI 1003

NIRAJ 1002

LAXMAN 1007

RAJESH 1004

SQL> S.SNAME,S.SNUM FROM SALESMAN S,CUSTOMER C WHERE C.SNUM=S.SNUM AND C.CITY=S.CITY;

SP2-0734: unknown command beginning "S.SNAME,S...." - rest of line ignored.

SQL> SELECT S.SNAME,S.SNUM FROM SALESMAN S,CUSTOMER C WHERE C.SNUM=S.SNUM AND C.CITY=S.CITY;

no rows selected

SQL> SELECT \*FROM SALESMAN WHERE SNUM IN

2 (SELECT SNUM FROM CUSTOMER WHERE RATING>300);

no rows selected

SQL> SELECT \*FROM CUSTOMER WHERE RATING>ANY

2 (SELECT RATING FROM CUSTOMER WHERE CITY='ROME');

CNUM CNAME CITY RATING SNUM

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

2004 GOVIND BOMBAY 300 1002

2006 CHAMPAK SURAT 300 1007

2003 LAXIT SURAT 200 1002

2008 MANOJ LONDON 200 1007

2002 GITA ROME 200 1003

SQL> SELECT \*FROM ORDERS WHERE AMOUNT>ANY

2 (SELECT AMOUNT FROM ORDERS WHERE ODATE='6/OCT/97');

no rows selected

SQL>

SQL> SELECT \*FROM ORDERS WHERE AMOUNT<ANY

2 (SELECT AMOUNT FROM ORDERS WHERE CNUM IN

3 (SELECT CNUM FROM CUSTOMER WHERE CITY='ROME'));

ONUM AMOUNT ODATE CNUM SNUM

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

3001 18.69 03-MAR-99 2007 1007

3002 767.19 05-MAR-97 2001 1001

3005 1098.25 15-APR-99 2008 1007

3006 1713.12 10-APR-99 2008 1007

3007 75.75 20-MAY-96 2004 1001

3009 1309.95 08-MAY-97 2004 1002

6 rows selected.

SQL> SELECT \*FROM CUSTOMER WHERE RATING>ALL

2 (SELECT RATING FROM CUSTOMER WHERE CITY='ROME');

CNUM CNAME CITY RATING SNUM

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

2006 CHAMPAK SURAT 300 1007

2004 GOVIND BOMBAY 300 1002

SQL> SELECT \*FROM CUSTOMER WHERE RATING NOT IN

2 (SELECT RATING FROM CUSTOMER WHERE CITY='SURAT');

CNUM CNAME CITY RATING SNUM

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

2007 PRATIK ROME 100 1004

2005 CHANDRESH LONDON 100 1001

2001 HARDIK LONDON 100 1001

SQL> SELECT \*FROM CUSTOMER WHERE RATING>=

2 ANY(SELECT RATING FROM CUSTOMER WHERE SNUM IN

3 (SELECT SNUM FROM SALESMAN WHERE SNAME='NIRAJ'));

CNUM CNAME CITY RATING SNUM

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

2004 GOVIND BOMBAY 300 1002

2006 CHAMPAK SURAT 300 1007

2003 LAXIT SURAT 200 1002

2008 MANOJ LONDON 200 1007

2002 GITA ROME 200 1003

SQL> SELECT SNUM,AMOUNT FROM ORDERS WHERE AMOUNT IN

2 (SELECT MAX(AMOUNT) FROM ORDERS GROUP BY ODATE);

SNUM AMOUNT

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

1007 18.69

1001 767.19

1004 1900.1

1002 5160.45

1007 1098.25

1007 1713.12

1001 75.75

1001 4723

1002 1309.95

1001 9898.87

10 rows selected.

SQL> SELECT SNUM,AMOUNT FROM ORDERS WHERE AMOUNT IN

2 (SELECT MIN(AMOUNT) FROM ORDERS GROUP BY ODATE);

SNUM AMOUNT

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

1007 18.69

1001 767.19

1004 1900.1

1002 5160.45

1007 1098.25

1007 1713.12

1001 75.75

1001 4723

1002 1309.95

1001 9898.87

10 rows selected.

SQL> SELECT CNAME,CITY ||' LOW RATING '||RATING FROM CUSTOMER WHERE RATING IN

2 (SELECT RATING FROM CUSTOMER WHERE RATING<100)

3 UNION

4 SELECT CNAME,CITY || ' HIGH RATING '||RATING FROM CUSTOMER WHERE RATING IN

5 (SELECT RATING FROM CUSTOMER WHERE RATING>=200);

CNAME

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

CITY||'LOWRATING'||RATING

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

CHAMPAK

SURAT HIGH RATING 300

GITA

ROME HIGH RATING 200

GOVIND

BOMBAY HIGH RATING 300

CNAME

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

CITY||'LOWRATING'||RATING

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

LAXIT

SURAT HIGH RATING 200

MANOJ

LONDON HIGH RATING 200

SQL> SELECT CNAME,CITY ||' LOW RATING '||RATING FROM CUSTOMER WHERE RATING IN

2 (SELECT RATING FROM CUSTOMER WHERE RATING<100)

3 UNION

4 SELECT CNAME,CITY || ' HIGH RATING '||RATING FROM CUSTOMER WHERE RATING IN

5 (SELECT RATING FROM CUSTOMER WHERE RATING>=200);

CNAME

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

CITY||'LOWRATING'||RATING

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

CHAMPAK

SURAT HIGH RATING 300

GITA

ROME HIGH RATING 200

GOVIND

BOMBAY HIGH RATING 300

CNAME

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

CITY||'LOWRATING'||RATING

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

LAXIT

SURAT HIGH RATING 200

MANOJ

LONDON HIGH RATING 200

SQL> INSERT INTO SALESMAN (SNUM,SNAME,COMMITION) VALUES(100,'RAKESH',14);

1 row created.

SQL> SPOOL OFF;

SQL> CREATE TABLE LONDONSTAFF AS(SELECT \*FROM SALESMAN WHERE 1<0);

Table created.

SQL> SELECT \*FROM LONDONSTAFF;

no rows selected

SQL> DESC LONDONSTAFF;

Name Null? Type

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

SNUM NUMBER(4)

SNAME VARCHAR2(20)

CITY VARCHAR2(20)

COMMITION NUMBER(2)

SQL> --Q 67--

SQL> INSERT INTO LONDONSTAFF SELECT \*FROM SALESMAN WHERE CITY='LONDON';

2 rows created.

SQL> CREATE TABLE DAY\_TOTAL (ODATE,TOTAL) AS SELECT ODATE,SUM(AMOUNT) FROM ORDERS GROUP BY ODATE;

Table created.

SQL> SELECT \*FROM DAY\_TOTAL;

ODATE TOTAL

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

06-JUN-99 9898.87

05-MAR-97 767.19

15-APR-99 1098.25

08-MAY-97 1309.95

10-APR-99 1713.12

03-MAR-99 18.69

12-MAR-99 5160.45

10-MAR-97 1900.1

20-MAY-96 75.75

30-MAY-99 4723

10 rows selected.

SQL>

SQL> CREATE TABLE MULTICUST AS SELECT \*FROM SALESMAN;

Table created.

SQL> SELECT \*FROM MULTICUST;

SNUM SNAME CITY COMMITION

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

1001 PIYUSH LONDON 12

1002 NIRAJ SURAT 13

1003 MITI LONDON 11

1004 RAJESH BARODA 15

1005 ANAND NEW DELHI 10

1006 RAM PATAN 10

1007 LAXMAN BOMBAY 9

100 RAKESH 14

8 rows selected.

SQL> DELETE FROM SALESMAN;

DELETE FROM SALESMAN

\*

ERROR at line 1:

ORA-02292: integrity constraint (SMIT.SYS\_C007133) violated - child record

found

SQL> /\* WE CAN'T DELETE THE ROWS WITHOUT DELETING THE OTHER TABLE'S ROWS BECAUSE WE HAVE USED FOREIGN KEY IN

SQL> ANOTHER TABLE'S TO GIVE THE ACCESS TO THIS TABLE'S PARTICULAR FIELD NAMED SNUM \*/

SQL> INSERT INTO SALESMAN SELECT \*FROM MULTICUST;

INSERT INTO SALESMAN SELECT \*FROM MULTICUST

\*

ERROR at line 1:

ORA-00001: unique constraint (SMIT.SYS\_C007131) violated

SQL> DELETE ORDERS WHERE CNUM IN

2 (SELECT CNUM FROM CUSTOMER WHERE CNAME='CHANDRESH');

0 rows deleted.

SQL> UPDATE CUSTOMER SET RATING=400 WHERE SNUM IN

2 (SELECT SNUM FROM SALESMAN WHERE SNAME='PIYUSH');

2 rows updated.

SQL> UPDATE CUSTOMER SET RATING=RATING+100 WHERE CITY='ROME';

2 rows updated.

SQL> UPDATE SALESMAN SET SNAME='GOPAL',CITY='BOMBAY',COMMITION=10 WHERE SNAME='MITI';

1 row updated.

SQL> UPDATE SALESMAN SET COMMITION=COMMITION\*2 WHERE CITY='LONDON';

1 row updated.

SQL> UPDATE CUSTOMER SET RATING=NULL WHERE CITY='LONDON';

4 rows updated.

SQL> CREATE TABLE SALESMANAGER AS SELECT \*FROM SALESMAN WHERE 1=2;

Table created.

SQL> INSERT INTO SALESMANAGER SELECT \*FROM SALESMAN WHERE SNUM IN

2 (SELECT SNUM FROM ORDERS GROUP BY SNUM HAVING SUM(AMOUNT)>5000);

2 rows created.

SQL> CREATE TABLE SMCITY AS SELECT S.\*,C.CNUM,C.CNAME FROM SALESMAN S,CUSTOMER C WHERE C.CITY=S.CITY;

Table created.

SQL> SELECT \*FROM SMCITY;

no rows selected

SQL> DELETE FROM CUSTOMER WHERE SNUM IN (SELECT SNUM FROM SALESMAN WHERE CITY='NEW DELHI');

0 rows deleted.

SQL> CREATE TABLE BONUS(ODATE,AMOUNT) AS SELECT ODATE,AMOUNT FROM ORDERS WHERE AMOUNT IN

2 (SELECT MAX(AMOUNT) FROM ORDERS GROUP BY ODATE);

Table created.

SQL> SELECT \*FROM BONUS;

ODATE AMOUNT

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

03-MAR-99 18.69

05-MAR-97 767.19

10-MAR-97 1900.1

12-MAR-99 5160.45

15-APR-99 1098.25

10-APR-99 1713.12

20-MAY-96 75.75

30-MAY-99 4723

08-MAY-97 1309.95

06-JUN-99 9898.87

10 rows selected.

SQL> SELECT \*FROM MULTICUST;

SNUM SNAME CITY COMMITION

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

1001 PIYUSH LONDON 12

1002 NIRAJ SURAT 13

1003 MITI LONDON 11

1004 RAJESH BARODA 15

1005 ANAND NEW DELHI 10

1006 RAM PATAN 10

1007 LAXMAN BOMBAY 9

100 RAKESH 14

8 rows selected.

SQL> CREATE TABLE MULTICUST1 AS SELECT \*FROM SALESMAN WHERE SNUM IN

2 (SELECT SNUM FROM CUSTOMER GROUP BY SNUM HAVING COUNT(CNUM)>1);

Table created.

SQL> SELECT \*FROM MULTICUST1;

SNUM SNAME CITY COMMITION

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

1001 PIYUSH LONDON 24

1007 LAXMAN BOMBAY 9

1002 NIRAJ SURAT 13

SQL> DELETE SALESMAN WHERE SNUM IN

2 (SELECT SNUM FROM CUSTOMER WHERE RATING=100);

0 rows deleted.

SQL> DELETE SALESMAN WHERE SNUM IN

2 (SELECT SNUM FROM ORDERS WHERE AMOUNT IN

3 (SELECT MIN(AMOUNT) FROM ORDERS GROUP BY ODATE));

DELETE SALESMAN WHERE SNUM IN

\*

ERROR at line 1:

ORA-02292: integrity constraint (SMIT.SYS\_C007133) violated - child record

found

SQL>

SQL> UPDATE SALESMAN SET COMMITION=COMMITION-(COMMITION\*.20) WHERE

2 SNUM IN(SELECT SNUM FROM ORDERS WHERE AMOUNT IN(SELECT MIN(AMOUNT)

3 FROM ORDERS GROUP BY ODATE));

4 rows updated.

SQL> DELETE FROM CUSTOMER WHERE CNUM NOT IN

2 (SELECT CNUM FROM ORDERS);

3 rows deleted.

SQL> SELECT \*FROM ORDERS WHERE ODATE='&ODATE';

Enter value for odate: 3/MAR/1999

old 1: SELECT \*FROM ORDERS WHERE ODATE='&ODATE'

new 1: SELECT \*FROM ORDERS WHERE ODATE='3/MAR/1999'

ONUM AMOUNT ODATE CNUM SNUM

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

3001 18.69 03-MAR-99 2007 1007

SQL> ALTER TABLE ORDERS ADD ITEM\_NAME VARCHAR(20);

Table altered.

SQL> CREATE TABLE COPY\_ORDERS AS SELECT \*FROM ORDERS;

Table created.

SQL> DROP TABLE ORDERS;

Table dropped.

SQL> CREATE TABLE SALES(SNUM NUMBER(4) PRIMARY KEY,SNAME CHAR(20) NOT NULL,CITY CHAR(20),COMMITION NUMBER(2) DEFAULT 10 NOT NULL);

Table created.

SQL> CONN SYSTEM AS SYSDBA

Connected.

SQL> GRANT CREATE VIEW TO SMIT;

Grant succeeded.

SQL> CONN smit

Connected.

SQL> CREATE VIEW BIG\_ORDERS AS SELECT \*FROM COPY\_ORDERS WHERE AMOUNT>4000;

View created.

SQL> CREATE VIEW RATE\_COUNT (RATING,COUNT\_SNUM) AS SELECT RATING,COUNT(SNUM) FROM CUSTOMER GROUP BY RATING;

View created.

SQL> CREATE VIEW HIGH\_RATING AS SELECT \*FROM CUSTOMER WHERE RATING IN

2 (SELECT MAX(RATING) FROM CUSTOMER);

View created.

SQL> CREATE VIEW NO\_SALESMAN(SNUM,CITY) AS SELECT COUNT(SNUM),CITY FROM SALESMAN GROUP BY CITY;

View created.

SQL> CREATE VIEW O\_DETAIL (SNUM,SNAME,AVERAGE,TOTAL) AS SELECT S.SNUM,S.SNAME,AVG(O.AMOUNT),SUM(O.AMOUNT)

2 FROM COPY\_ORDERS O,SALESMAN S WHERE O.SNUM=S.SNUM GROUP BY (S.SNUM,S.SNAME);

View created.

SQL> CREATE VIEW TRACK\_ORDERS AS SELECT COUNT(DISTINCT(SNUM))"NUM OF SALESMAN",

2 COUNT(DISTINCT(CNUM))"NO OF CUSTOMER",COUNT(ONUM)"TOTAL ORDERS",AVG(AMOUNT)"AVERAGE",

3 SUM(AMOUNT)"TOTAL" FROM COPY\_ORDERS GROUP BY ODATE;

View created.

SQL> CREATE VIEW SHOW\_NAME AS SELECT O.ONUM,O.AMOUNT,S.SNAME,C.CNAME FROM SALESMAN S,CUSTOMER C,COPY\_ORDERS O

2 WHERE C.CNUM=O.CNUM AND S.SNUM=O.SNUM;

View created.

SQL> SELECT S.\*,SS.COMMITION FROM SALESMAN SS,SHOW\_NAME S WHERE SS.SNUM IN

2 (SELECT SNUM FROM SALESMAN WHERE SNAME='RAJESH' GROUP BY SNUM);

ONUM AMOUNT SNAME CNAME COMMITION

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

3002 767.19 PIYUSH HARDIK 12

3004 5160.45 NIRAJ LAXIT 12

3009 1309.95 NIRAJ GOVIND 12

3007 75.75 PIYUSH GOVIND 12

3010 9898.87 PIYUSH CHAMPAK 12

3008 4723 PIYUSH CHAMPAK 12

3003 1900.1 RAJESH PRATIK 12

3001 18.69 LAXMAN PRATIK 12

3006 1713.12 LAXMAN MANOJ 12

3005 1098.25 LAXMAN MANOJ 12

10 rows selected.

SQL> CREATE VIEW MAX\_SALES AS SELECT S.SNUM,S.SNAME,O.ODATE FROM SALESMAN S,COPY\_ORDERS O WHERE O.AMOUNT IN

2 (SELECT MAX(AMOUNT) FROM COPY\_ORDERS);

View created.

SQL> CREATE VIEW HIGH\_ORDERS AS SELECT SNUM,SNAME FROM MAX\_SALES WHERE SNUM IN

2 (SELECT SNUM FROM COPY\_ORDERS HAVING MAX(AMOUNT)>1 GROUP BY SNUM);

View created.

SQL> CREATE VIEW SAME\_CITY AS SELECT S.SNUM,C.CNUM,C.CITY FROM SALESMAN S,CUSTOMER C,COPY\_ORDERS O

2 WHERE C.CNUM=O.CNUM AND S.SNUM=O.SNUM;

View created.

SQL> CREATE TABLE COMM(SNUM NUMBER(4),COMMITION NUMBER(2) CHECK(COMMITION>10 AND COMMITION<20));

Table created.

SQL> CREATE TABLE CDATE(ONUM NUMBER(4),AMOUNT NUMBER(6,2),ODATE DATE DEFAULT SYSDATE,SNUM NUMBER(4),CNUM NUMBER(4));

Table created.

SQL> SELECT \*FROM SALESMAN WHERE CITY='LONDON' AND SNUM IN

2 (SELECT SNUM FROM CUSTOMER WHERE CITY='LONDON');

SNUM SNAME CITY COMMITION

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

1001 PIYUSH LONDON 19

SQL> SELECT \*FROM SALESMAN WHERE CITY='LONDON'

2 AND SNUM NOT IN

3 (SELECT SNUM FROM CUSTOMER WHERE CITY='LONDON');

no rows selected

SQL> /\* 106 QUIRES COMPLETED \*/

SQL> SPOOL OFF;