1. Find the name and number of all experts whose normal appraisal fee is sometimes larger than any fee that the expert has ever charged for an appraisal.

CREATE VIEW EX

AS SELECT E.ENO, E.ENAME

FROM E, A

WHERE E.ENO = A.ENO

AND A.FEE > E.CHARGE;

SELECT ENO "Expert No.",ENAME "Expert Name"

FROM EX;

View created.

Exp Expert Name

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

E01 Gumby Green

E03 Frankenstein

E01 Gumby Green

E04 Bob Mechs

1. Find the name and number of all inventions that have a similar invention.

SELECT I.INO "Invention No.", I.NAME "Invention Name"

FROM I

WHERE INO IN

(SELECT INOA

FROM S

WHERE S.INOA = I.INO)

OR INO IN

(SELECT INOB

FROM S

WHERE S.INOB = I.INO)

ORDER BY INO ASC;

Inv Invention Name

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

I01 Cell Phone

I02 LAN Phone

1. For each invention that has been bought, find how many different customers (not inventors) have bought the invention.

SELECT INO "Invention Number", COUNT(CNO) "Number of Customers Bought"

FROM B

GROUP BY INO;

Input truncated to 13 characters

Inv Number of Customers Bought

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

I01 3

I02 2

I03 3

I04 2

I05 2

I06 3

I07 2

I08 3

8 rows selected.

1. Find the country where the most inventions were invented.

CREATE VIEW Inv\_No

AS SELECT COUNTRY, COUNT(\*) AS No\_Inv

FROM I

GROUP BY COUNTRY ;

CREATE VIEW Most\_Inv

AS SELECT MAX(No\_Inv) AS Mst\_Inv

FROM Inv\_No;

SELECT COUNTRY, Mst\_Inv "No. of Inventions"

FROM Inv\_No, Most\_Inv

WHERE Inv\_No.No\_Inv = Most\_Inv.Mst\_Inv;

View created.

View created.

COUNTRY No. of Inventions

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

Russia 3

1. Create a view that has for each country, the average rating of the experts from each country. Which country has the largest average rating of experts.

CREATE VIEW RATINGperCOUNTRY

AS SELECT COUNTRY, AVG(RATING) AS COUNTRYRATE

FROM E

GROUP BY COUNTRY;

CREATE VIEW BEST\_EX

AS SELECT MIN(COUNTRYRATE) AS EX\_RATING

FROM RATINGperCOUNTRY;

SELECT COUNTRY, EX\_RATING "BEST Rating"

FROM RATINGperCOUNTRY, BEST\_EX

WHERE RATINGperCOUNTRY.COUNTRYRATE = BEST\_EX.EX\_RATING;

View created.

View created.

Input truncated to 55 characters

COUNTRY BEST Rating

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

Paraguay 1

USA 1

SQL> select \*

2 FROM RATINGperCOUNTRY;

COUNTRY COUNTRYRATE

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

Paraguay 1

Romania 3

Russia 4

USA 1

1. For each customer, find the total amount of money the customer is willing to spend

CREATE VIEW H\_P

As (SELECT INO, MAX(PRICE) AS High\_Prc

FROM R

GROUP BY INO);

CREATE VIEW H\_C

As SELECT CNO, PRICE

FROM R;

CREATE VIEW H\_P\_C

As SELECT CNO, High\_Prc

FROM H\_P, H\_C

WHERE H\_P.High\_Prc=H\_C.PRICE;

Select CNO "CUSTOMER No.", SUM(High\_Prc) "Price Willing to Spend"

FROM H\_P\_C

GROUP BY CNO;

View created.

View created.

View created.

Input truncated to 13 characters

CUS Price Willing to Spend

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

C01 21106

C02 13333

C05 16662

21109

1. Find the name and number of customers who have bought every invention at least once.

SELECT CNO "Customer No.", CNAME "Customer Name"

FROM C

WHERE NOT EXISTS

(SELECT \*

FROM I

WHERE NOT EXISTS

(SELECT \*

FROM B

WHERE B.INO = I.INO

AND B.CNO = C.CNO));

Input truncated to 21 characters

Cus Customer Name

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

C01 John Tucker

C05 Willis Bord

1. Find all experts who come from a country that has neither letter “e” nor “t” but has the letter “r” although it cannot be the 2nd letter in the name. We also do not know the country that the expert is from although we do know that the expert’s rating is better than the lowest possible.

SELECT ENO "Expert No.", ENAME "Expert Name", COUNTRY

FROM E

WHERE RATING < 5

AND (COUNTRY LIKE 'R%'

OR COUNTRY LIKE '%r%'

AND COUNTRY NOT LIKE '\_r%')

AND (COUNTRY NOT LIKE 'E%'

AND COUNTRY NOT LIKE '%e%'

AND COUNTRY NOT LIKE 'T%'

AND COUNTRY NOT LIKE '%t%');

Exp Expert Name

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

COUNTRY

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

E01 Gumby Green

Russia

E02 Samuri Jack

Paraguay

E03 Frankenstein

Romania

1. Find the name and number of all customers who own at least one invention from India but no inventions from Mexico and Spain.

SELECT C.CNO "Customer No.", C.CNAME "Customer Name"

FROM C, O, I

WHERE C.CNO = O.CNO

AND I.INO = O.INO

AND (I.COUNTRY = 'India'

AND I.COUNTRY <> 'Spain'

AND I.COUNTRY <> 'Mexico');

Cus Customer Name

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

C05 Willis Bord

SQL> exit