1. What tables are there and how many rows are there?

select count(\*) as detail from SALESDETAIL;

82

select count(\*) as customers from CUSTOMER;

93

select count(\*) as vehicles from VEHICLE;

160

select count(\*) as persons from SALESPERSON;

9

select count(\*) as colours from COLOUR;

7

1. Write a query that gives the name of the salesperson and how many cars they have sold;

select count(REG\_NO), CONCAT(CONCAT(p.F\_NAME, ' '), p.L\_NAME) as Full\_name from SALESDETAIL d, SALESPERSON p

where d.SP\_ID = p.SP\_ID group by p.F\_NAME, p.L\_NAME;

23 Michael Knapp

1 crixus hunger

27 Bradley Palmer

1 venkatesh elangovan

1 lane bunter

29 Kane Hunter

1. Write a query that gives the last name of the salesperson, the make of car and the number they have sold of that type;

select p.L\_NAME,v.MAKE,count(v.MODEL) from salesperson p, SALESDETAIL d, VEHICLE v

where v.REG\_NO = d.REG\_NO and p.SP\_ID = d.SP\_ID group by v.make,p.L\_NAME order by p.L\_NAME;

Hunter Audi 1

Hunter BMW 2

Hunter Ferrari 1

Hunter Ford 1

Hunter Honda 9

Hunter Mazda 5

Hunter Mini 1

Hunter Mitsubishi 1

Hunter Nissan 4

Hunter Porsch 1

Hunter Toyota 3

Knapp Audi 2

Knapp BMW 2

Knapp Ford 2

Knapp Holden 1

Knapp Honda 4

Knapp Mazda 1

Knapp Nissan 11

Palmer BMW 3

Palmer Camry 1

Palmer FORD 1

Palmer Ferrari 1

Palmer Ford 1

Palmer Holden 1

Palmer Honda 4

Palmer Mazda 5

Palmer Nissan 2

Palmer Toyota 8

bunter Maida 1

elangovan Landa 1

hunger Lambo 1

1. List of cars that have been sold more than once

select v.MODEL, count(v.REG\_NO) from VEHICLE v,SALESDETAIL d where v.REG\_NO=d.REG\_NO group by v.MODEL having count(v.REG\_NO)>1;

Note 4

353 2

Bluebird 7

323 3

626 3

Corolla 5

525 2

Accord 3

Jazz 2

Civic 3

CB250FT 6

1. List of customers who bought their cars after Feb 2001 // is it 2001?

select c.\* from CUSTOMER c, SALESDETAIL d where c.CUST\_ID=d.CUST\_ID and d.DATE\_SOLD > TO\_DATE('Feb-2015','mon-yyyy');

112 Maya Bundintz F RD2 Cambridge 2662437

181 Heather Yang F 478 Ward St Aukland 0210854

181 Heather Yang F 478 Ward St Aukland 0210854

1. List of car makes, colours and the numbers sold  
   select count(d.reg\_no),v.make,c.colour from SALESDETAIL d, VEHICLE v, COLOUR c

where c.COLOUR\_ID=v.COLOUR and d.REG\_NO=v.REG\_NO group by v.MAKE,c.COLOUR;

1 Mitsubishi Blue

1 FORD Green

1 Nissan Black

3 Mazda Red

3 Toyota Green

2 Mazda White

1 Toyota Black

1 Ford White

2 Mazda Purple

1 Audi White

1 Porsch Black

2 Toyota Red

2 Mazda Black

3 Nissan Blue

3 Honda White

1 Ford Black

1 Toyota White

1 Camry Blue

1 Ford Green

1 Holden Purple

1 Landa Purple

1 Mini White

1 Audi Red

1 Audi Green

1 Honda Purple

2 Honda Green

2 BMW Black

1 Lambo Silver

3 Nissan Purple

1 Mazda Silver

1 BMW Green

2 BMW Silver

6 Nissan White

1 BMW Purple

1 Maida White

3 Toyota Purple

1 Toyota Blue

1 Honda Silver

2 Nissan Green

1 Ferrari Red

2 Honda Blue

8 Honda Red

1 Mazda Blue

2 Nissan Silver

1 Holden Red

1 Ferrari Black

1 Ford Silver

1 BMW Blue

1. Give a list of salesmen in the following format – “Mr” + first name initial + “. ” + Last name  
   select CONCAT(CONCAT(CONCAT('Mr ', SUBSTR(p.F\_NAME,1,1)), '.'),p.L\_NAME) from salesperson p;

Mr M.Knapp

Mr B.Palmer

Mr K.Hunter

Mr l.bunter

Mr v.elangovan

Mr c.hunger

Mr M.Palmer

Mr B.Knapp

Mr H.Kane

1. What is the average price of purchase by men, women.  
   select to\_char(avg(d.sale\_price), '$999,999,999,999.99') as average\_price ,c.GENDER from SALESDETAIL d, CUSTOMER c where c.CUST\_ID=d.CUST\_ID group by c.GENDER;

$20,928.33 M

$19,941.62 F

1. What year sold the most cars

select \* from

(select count(\*) as sale,to\_char(d.DATE\_SOLD,'yyyy') as year

from SALESDETAIL d group by to\_char(d.DATE\_SOLD,'yyyy') order by sale desc)

where ROWNUM = 1;

68 2014

1. For that year, give the total sales by month

select count(d.REG\_NO), extract(month FROM d.DATE\_SOLD) as m, extract(year FROM d.DATE\_SOLD) from SALESDETAIL d

where extract(year FROM d.DATE\_SOLD)=(select year from

(select count(\*) as sale,to\_char(d.DATE\_SOLD,'yyyy') as year

from SALESDETAIL d group by to\_char(d.DATE\_SOLD,'yyyy') order by sale desc)

where ROWNUM = 1) group by extract(month FROM d.DATE\_SOLD),extract(year FROM d.DATE\_SOLD) order by m asc;

4 1 2014

2 2 2014

1 3 2014

10 4 2014

9 5 2014

12 6 2014

14 7 2014

4 8 2014

4 9 2014

1 10 2014

3 11 2014

4 12 2014

1. What is the most popular model by men, by women.

select count(\*) sale, v.model,c.GENDER from SALESDETAIL d, VEHICLE v,CUSTOMER c

where d.REG\_NO=v.REG\_NO and d.CUST\_ID=c.CUST\_ID group by v.MODEL,c.GENDER order by sale desc;

4 Bluebird F

3 CB250FT M

3 Accord F

3 CB250FT F

3 626 M

3 Note M

3 Bluebird M

3 Corolla M

1. List of customers who have bought more than one car

select \* from CUSTOMER where CUST\_ID in

(select c.CUST\_ID from SALESDETAIL d, VEHICLE v,CUSTOMER c

where d.REG\_NO=v.REG\_NO and d.CUST\_ID=c.CUST\_ID group by c.CUST\_ID having count(d.REG\_NO)>1);

167 Hellen Morris F 28 Te Rakau Dr Auckland 5375765

180 Robert Chen M 34 Western Rd Aukland 0215894

157 jossie marrie F 778 valley St taupo 8145618

113 Jim Jimson F 123 Jim Rd Cambridge 0800838

181 Heather Yang F 478 Ward St Aukland 0210854

112 Maya Bundintz F RD2 Cambridge 2662437

102 Peeta Mallark M 123 Anglesea St Hamilton 8111111

110 Polly Wiggle F 177 River Rd Hamilton 2443764

114 John Johnson M 655 Tristram St Hamilton 8181818

109 Victor Boome M 51 Elicott Rd Hamilton 2862273

171 Alex Mason M 32 Hudson Lane Hamilton 8128723

103 Gale Hawthorne M 717 River Rd Hamilton 8221122

111 Levitea Chatterton F 65 Duke St Cambridge 5384832

1. A list of salespeople and the people to whom they have sold. Salespeople – “Mr” + first name initial + “. ” + Last name, Customers – last name “,” first initial in alphabetic order.

select CONCAT(CONCAT(CONCAT('Mr ', SUBSTR(p.F\_NAME,1,1)), '.'),p.L\_NAME) as saleperson,CONCAT(CONCAT(c.L\_NAME, ','), SUBSTR(c.F\_NAME,1,1)) as customer from SALESDETAIL d, VEHICLE v,CUSTOMER c, SALESPERSON p

where d.REG\_NO=v.REG\_NO and d.CUST\_ID=c.CUST\_ID and p.SP\_ID=d.SP\_ID order by SUBSTR(c.F\_NAME,1,1) asc;

Mr M.Knapp Richard,A

Mr B.Palmer Gregg,A

Mr B.Palmer Mason,A

Mr K.Hunter Mason,A

Mr K.Hunter Pond,A

Mr M.Knapp Kreper,A

Mr M.Knapp Morris,A

Mr K.Hunter Greenhorn,B

Mr B.Palmer Smiths,C

Mr M.Knapp Aymes,C

Mr M.Knapp Black,C

Mr M.Knapp Cartman,E

Mr K.Hunter Smith,F

Mr B.Palmer Castle,F

Mr K.Hunter Hawthorne,G

Mr K.Hunter Hawthorne,G

Mr M.Knapp Hawthorne,G

Mr B.Palmer Havel,H

Mr B.Palmer Yang,H

Mr B.Palmer Yang,H

Mr B.Palmer Morris,H

Mr M.Knapp Morris,H

Mr M.Knapp Avernathy,H

Mr B.Palmer Marsh,I

Mr K.Hunter Jimson,J

Mr M.Knapp Kenneth,J

Mr K.Hunter Deer,J

Mr B.Palmer Doe,J

Mr K.Hunter Pots,J

Mr M.Knapp Jimson,J

Mr l.bunter Johnson,J

Mr B.Palmer Johnson,J

Mr B.Palmer Jimson,J

Mr B.Palmer Mack,J

Mr M.Knapp Haitana,J

Mr K.Hunter Thompson,J

Mr K.Hunter Babe,J

Mr M.Knapp Everdeen,K

Mr K.Hunter Hunter,K

Mr B.Palmer Morris,K

Mr K.Hunter Havelock,K

Mr M.Knapp Chatterton,L

Mr K.Hunter Laurent,L

Mr K.Hunter Chatterton,L

Mr K.Hunter Chatterton,L

Mr M.Knapp De Santa,M

Mr K.Hunter Pacman,M

Mr K.Hunter Bundintz,M

Mr B.Palmer Bundintz,M

Mr B.Palmer Trinket,N

Mr B.Palmer Wiggle,P

Mr M.Knapp Wiggle,P

Mr M.Knapp Wiggle,P

Mr K.Hunter Wiggle,P

Mr M.Knapp Wiggle,P

Mr B.Palmer Wiggle,P

Mr c.hunger Wiggle,P

Mr B.Palmer Everdeen,P

Mr B.Palmer Mallark,P

Mr K.Hunter Luo,P

Mr K.Hunter Mallark,P

Mr K.Hunter Mallark,P

Mr K.Hunter Avelyn,P

Mr K.Hunter kapoor,R

Mr M.Knapp Smith,R

Mr B.Palmer Anchor,R

Mr M.Knapp Chen,R

Mr M.Knapp Chen,R

Mr K.Hunter Banks,S

Mr B.Palmer Smith,S

Mr B.Palmer Narainan,T

Mr B.Palmer Deen,T

Mr M.Knapp Ever,T

Mr v.elangovan Boome,V

Mr K.Hunter Boome,V

Mr B.Palmer Boome,V

Mr K.Hunter Boome,V

Mr M.Knapp marrie,j

Mr K.Hunter marrie,j

Mr B.Palmer upton,k

Mr B.Palmer walker,p

Mr K.Hunter elangovan,v

