**Q1)**

COLUMN MAKE FORMAT A20

COLUMN MODEL FORMAT A15

COLUMN LICENSENO FORMAT A09

COLUMN OUTNO FORMAT A10

SELECT TO\_CHAR(R.RENTALNO) RENTALNO,

TO\_CHAR(STARTDATE,'MM/DD/YYYY HH24:MI:SS') AS STARTDATE\_TIME,

NVL(TO\_CHAR(RETURNDATE,'MM/DD/YYYY HH24:MI:SS'),'NOT RETURNED') AS RETURNDATE\_TIME,

MILEAGEBEFORE MILEAGE\_BEFORE, MILEAGEAFTER MILEAGE\_A,

V.LICENSENO, MAKE, MODEL,

TO\_CHAR(OUTNO) AS OUTNO, YEAR,

NVL(TO\_CHAR(DATECHECKED,'MM/DD/YYYY HH24:MI:SS'),'NO FAULT REPORT') AS DATECHECKED

FROM RAGREEMENT R JOIN VEHICLE V ON R.LICENSENO = V.LICENSENO

LEFT OUTER JOIN FAULTREPORT F ON F.RENTALNO = R.RENTALNO;

RENTALNO STARTDATE\_TIME RETURNDATE\_TIME MILEAGE\_BEFORE MILEAGE\_AFTER LICENSENO MAKE MODEL OUTNO YEAR DATECHECKED

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100001 10/23/2012 10:46:18 10/29/2013 09:36:46 5741 6215 AEA-515 SATURN ION 106 2012 10/31/2013 10:35:10

100013 08/24/2011 08:18:18 08/25/2011 09:30:45 17055 17789 ACB-011 FORD BRONCO II 107 2011 08/28/2011 13:18:18

100003 02/26/2013 10:35:10 02/28/2013 11:18:18 65261 65400 AIC-010 CHEVROLET EXPRESS 2500 105 2012 03/02/2013 15:10:29

100008 04/20/2016 12:10:10 04/28/2016 12:15:18 2017 3359 AHA-818 MAZDA MIATA MX-5 107 2015 04/30/2016 15:10:29

100009 01/30/2014 09:33:14 02/03/2014 10:10:10 6348 7291 AEA-515 SATURN ION 106 2012 02/05/2014 11:20:57

100006 12/05/2017 12:10:29 12/15/2017 09:45:10 67256 68090 ADA-414 SUBARU IMPREZA 103 2015 12/16/2017 14:15:18

100011 09/07/2018 07:25:16 09/15/2018 08:35:15 76254 99966 ACA-313 CHEVROLET EQUINOX 102 2018 09/17/2018 10:46:18

100014 11/17/2013 09:45:10 11/19/2013 15:10:29 47067 48371 ABA-212 PONTIAC GTO 104 2012 11/24/2013 10:35:10

100007 05/03/2016 14:46:15 05/10/2016 14:20:57 65524 67000 AIC-010 CHEVROLET EXPRESS 2500 105 2012 05/15/2016 14:15:18

100002 10/07/2014 13:36:46 10/09/2014 13:35:10 4890 5359 AMA-015 MAYBACH 62 106 2012 10/12/2014 11:20:57

100012 01/29/2018 10:10:10 01/31/2018 10:46:18 7310 8389 AEA-515 SATURN ION 106 2012 02/03/2018 12:10:10

100004 06/17/2015 11:20:57 06/21/2015 10:35:10 21379 22305 AAA-111 MERCURY MOUNTAINEER 108 2014 06/25/2015 13:45:10

100005 07/28/2016 12:15:18 08/01/2016 13:10:29 11069 11909 ADB-012 VOLKSWAGEN QX 101 2015 08/06/2016 16:15:29

100017 07/16/2018 08:35:15 07/17/2018 16:10:10 17475 18215 AGA-717 VOLKSWAGEN BEETLE 106 2016 07/26/2018 16:15:29

100018 09/16/2018 17:35:15 09/21/2018 12:10:10 2678 2912 AZA-014 VOLVO S60 104 2016 09/25/2018 17:15:29

100019 11/16/2018 08:35:15 11/21/2018 13:10:10 2990 3500 AZA-014 VOLVO S60 104 2016 NO FAULT REPORT

100010 03/15/2016 09:30:45 03/18/2016 15:45:10 12018 12602 AIB-919 FORD THUNDERBIRD 104 2014 NO FAULT REPORT

100020 11/23/2018 13:35:45 NOT RETURNED 3567 NOT RETURNED AZA-014 VOLVO S60 104 2016 NO FAULT REPORT

100022 11/20/2018 12:10:10 NOT RETURNED 3380 NOT RETURNED AHA-818 MAZDA MIATA MX-5 107 2015 NO FAULT REPORT

100015 05/16/2017 08:35:15 05/25/2017 18:10:10 65524 65930 AFA-616 LAND ROVER RANGE ROVER 105 2016 NO FAULT REPORT

100016 05/16/2015 15:55:15 05/25/2015 12:10:10 12678 13812 AIB-919 FORD THUNDERBIRD 104 2014 NO FAULT REPORT

100021 11/29/2018 10:10:10 NOT RETURNED 8395 NOT RETURNED AEA-515 SATURN ION 106 2012 NO FAULT REPORT

22 rows selected.

**Q2)**

COLUMN OUTLET\_NO FORMAT A15

COLUMN AVG\_DIST\_DRIVEN\_PERRENTAL FORMAT 99999

SELECT TO\_CHAR(A.OUTNO) AS OUTLET\_NO, A.NO\_VEHICLES, NVL(B.NO\_RENTALS,0) AS NO\_RENTALS\_LASTYEAR,

NVL(B.AVG\_DIST\_DRIVEN\_PERRENTAL,0) AS AVGDISTANCE\_PERRENTAL\_LASTYEAR, A.NO\_EMPLOYEES,

NVL(ROUND((B.NO\_RENTALS/A.NO\_EMPLOYEES),2),0) AS NO\_RENTALS\_PEREMP\_LASTYEAR

FROM

(SELECT OUTNO, COUNT(DISTINCT LICENSENO) AS NO\_VEHICLES, COUNT(DISTINCT EMPNO) AS NO\_EMPLOYEES

FROM VEHICLE JOIN OUTLET USING(OUTNO)

JOIN EMPLOYEE USING(OUTNO)

GROUP BY OUTNO) A

LEFT OUTER JOIN

(SELECT OUTNO, COUNT(DISTINCT RENTALNO) AS NO\_RENTALS,

ROUND(AVG(MILEAGEAFTER-MILEAGEBEFORE),2) AS AVG\_DIST\_DRIVEN\_PERRENTAL

FROM RAGREEMENT JOIN VEHICLE USING(LICENSENO)

JOIN OUTLET USING(OUTNO)

JOIN EMPLOYEE USING(OUTNO)

WHERE MONTHS\_BETWEEN(SYSDATE, STARTDATE)<= 12

GROUP BY OUTNO) B ON A.OUTNO = B.OUTNO

UNION

SELECT 'GRAND TOTAL', A.NO\_VEHICLES, NVL(B.NO\_RENTALS,0), NVL(B.AVG\_DIST\_DRIVEN\_PERRENTAL,0), A.NO\_EMPLOYEES,

NVL(ROUND((B.NO\_RENTALS/A.NO\_EMPLOYEES),2),0) AS NO\_RENTALS\_PER\_EMPLOYEE

FROM

(SELECT OUTNO, COUNT(DISTINCT LICENSENO) AS NO\_VEHICLES, COUNT(DISTINCT EMPNO) AS NO\_EMPLOYEES

FROM VEHICLE JOIN OUTLET USING(OUTNO)

JOIN EMPLOYEE USING(OUTNO)

) A,

(SELECT COUNT(DISTINCT RENTALNO) AS NO\_RENTALS,

ROUND(AVG(MILEAGEAFTER-MILEAGEBEFORE),2) AS AVG\_DIST\_DRIVEN\_PERRENTAL

FROM RAGREEMENT JOIN VEHICLE USING(LICENSENO)

JOIN OUTLET USING(OUTNO)

JOIN EMPLOYEE USING(OUTNO)

WHERE MONTHS\_BETWEEN(SYSDATE, STARTDATE)<= 12) B

ORDER BY 1;

OUTLET\_NO NO\_VEHICLES NO\_RENTALS\_LASTYEAR AVGDISTANCE\_PERRENTAL\_LASTYEAR NO\_EMPLOYEES NO\_RENTALS\_PEREMP\_LASTYEAR

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101 1 0 0 3 0

102 2 1 23712 3 .33

103 1 1 834 3 .33

104 3 3 372 2 1.5

105 2 0 0 2 0

106 3 3 909.5 3 1

107 2 1 0 3 .33

108 1 0 0 3 0

GRAND TOTAL 15 9 5036.44 22 .41

9 rows selected.

**Q3)**

COLUMN MONTH FORMAT A12

COLUMN TOTAL\_REVENUE\_MONTH FORMAT A20

COLUMN REVENUE\_PERRENTAL\_MONTH FORMAT A25

COLUMN NO\_RENTALS\_MONTH FORMAT A18

SELECT NVL(TO\_CHAR(B.MONTH\_OF\_YEAR),'GRAND TOTAL') AS MONTH,

TO\_CHAR(SUM(DECODE(OUTNO,101,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET1,

TO\_CHAR(SUM(DECODE(OUTNO,102,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET2,

TO\_CHAR(SUM(DECODE(OUTNO,103,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET3,

TO\_CHAR(SUM(DECODE(OUTNO,104,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET4,

TO\_CHAR(SUM(DECODE(OUTNO,105,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET5,

TO\_CHAR(SUM(DECODE(OUTNO,106,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET6,

TO\_CHAR(SUM(DECODE(OUTNO,107,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET7,

TO\_CHAR(SUM(DECODE(OUTNO,108,DAILYRATE\*CEIL(RETURNDATE-STARTDATE),0)),'9990.99') AS OUTLET8,

TO\_CHAR(NVL(ROUND(SUM(DAILYRATE\*(RETURNDATE-STARTDATE)),2),0),'9990.99') AS TOTAL\_REVENUE\_MONTH,

TO\_CHAR(NVL(COUNT(RENTALNO),0)) AS NO\_RENTALS\_MONTH,

TO\_CHAR(NVL(ROUND(SUM(DAILYRATE\*CEIL(RETURNDATE-STARTDATE))/COUNT(RENTALNO), 2),0),'9990.99') AS REVENUE\_PERRENTAL\_MONTH

FROM

(

SELECT EXTRACT(MONTH FROM R.RETURNDATE) AS MONTH,V.OUTNO,R.RETURNDATE,R.STARTDATE,V.DAILYRATE,RENTALNO

FROM VEHICLE V JOIN RAGREEMENT R ON V.LICENSENO = R.LICENSENO

WHERE (EXTRACT(YEAR FROM SYSDATE)) - 1 = EXTRACT(YEAR FROM R.RETURNDATE)

) A

RIGHT OUTER JOIN

(

SELECT ROWNUM AS MONTH\_OF\_YEAR

FROM DUAL

CONNECT BY ROWNUM < = 12

) B

ON A.MONTH = B.MONTH\_OF\_YEAR

GROUP BY ROLLUP(B.MONTH\_OF\_YEAR);

MONTH OUTLET1 OUTLET2 OUTLET3 OUTLET4 OUTLET5 OUTLET6 OUTLET7 OUTLET8 TOTAL\_REVENUE\_MONTH NO\_RENTALS\_MONTH REVENUE\_PERRENTAL\_MONTH

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1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

5 0.00 0.00 0.00 0.00 1350.00 0.00 0.00 0.00 1268.90 1 1350.00

6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

7 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

8 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

9 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

10 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

11 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 0.00

12 0.00 0.00 1150.00 0.00 0.00 0.00 0.00 0.00 1138.39 1 1150.00

GRAND TOTAL 0.00 0.00 1150.00 0.00 1350.00 0.00 0.00 0.00 2407.29 2 1250.00

13 rows selected.

**Q4)**

--R REPRESENTSB NO. OF RENTALS

--F REPRESENTS NO. OF FAULT REPORTS

COLUMN "OUTLET\_TOTALS(R,F)" FORMAT A20

COLUMN OUTLET\_NO FORMAT A15

COLUMN "MON(R,F)" FORMAT A10

COLUMN "TUE(R,F)" FORMAT A10

COLUMN "WED(R,F)" FORMAT A10

COLUMN "THU(R,F)" FORMAT A10

COLUMN "FRI(R,F)" FORMAT A10

COLUMN "SAT(R,F)" FORMAT A10

COLUMN "SUN(R,F)" FORMAT A10

SELECT NVL(TO\_CHAR(V.OUTNO), 'WEEKDAY TOTALS') AS OUTLET\_NO,

SUM(DECODE(TO\_CHAR(R.STARTDATE, 'DY'), 'MON',1,0))||','|| SUM(DECODE(TO\_CHAR(F.DATECHECKED, 'DY'), 'MON',1,0)) AS "MON(R,F)",

SUM(DECODE(TO\_CHAR(R.STARTDATE, 'DY'), 'TUE',1,0)) || ',' || SUM(DECODE(TO\_CHAR(F.DATECHECKED, 'DY'), 'TUE',1,0)) AS "TUE(R,F)",

SUM(DECODE(TO\_CHAR(R.STARTDATE, 'DY'), 'WED',1,0)) || ',' || SUM(DECODE(TO\_CHAR(F.DATECHECKED, 'DY'), 'WED',1,0)) AS "WED(R,F)",

SUM(DECODE(TO\_CHAR(R.STARTDATE, 'DY'), 'THU',1,0)) || ',' || SUM(DECODE(TO\_CHAR(F.DATECHECKED, 'DY'), 'THU',1,0)) AS "THU(R,F)",

SUM(DECODE(TO\_CHAR(R.STARTDATE, 'DY'), 'FRI',1,0)) || ',' || SUM(DECODE(TO\_CHAR(F.DATECHECKED, 'DY'), 'FRI',1,0)) AS "FRI(R,F)",

SUM(DECODE(TO\_CHAR(R.STARTDATE, 'DY'), 'SAT',1,0)) || ',' || SUM(DECODE(TO\_CHAR(F.DATECHECKED, 'DY'), 'SAT',1,0)) AS "SAT(R,F)",

SUM(DECODE(TO\_CHAR(R.STARTDATE, 'DY'), 'SUN',1,0)) || ',' || SUM(DECODE(TO\_CHAR(F.DATECHECKED, 'DY'), 'SUN',1,0)) AS "SUN(R,F)",

TO\_CHAR(COUNT(R.RENTALNO)||',' ||COUNT(F.REPORTNUM)) AS "OUTLET\_TOTALS(R,F)"

FROM VEHICLE V LEFT OUTER JOIN RAGREEMENT R ON V.LICENSENO = R.LICENSENO

LEFT OUTER JOIN FAULTREPORT F ON R.RENTALNO = F.RENTALNO

WHERE SYSDATE - R.STARTDATE < 180

GROUP BY ROLLUP(V.OUTNO)

UNION

SELECT TO\_CHAR(OUTNO),

SUM(DECODE(TO\_CHAR (STARTDATE, 'DY'), 'MON', 0,0)) || ' ' || SUM(DECODE(TO\_CHAR (DateChecked, 'DY'), 'MON', 0,0)) AS "MON(R,F)",

SUM(DECODE(TO\_CHAR (STARTDATE, 'DY'), 'TUE', 0,0)) || ' ' || SUM(DECODE(TO\_CHAR (DateChecked, 'DY'), 'TUE', 0,0)) AS "TUE(R,F)",

SUM(DECODE(TO\_CHAR (STARTDATE, 'DY'), 'WED', 0, 0)) || ' ' || SUM(DECODE(TO\_CHAR (DateChecked, 'DY'), 'WED', 0, 0)) AS "WED(R,F)",

SUM(DECODE(TO\_CHAR (STARTDATE, 'DY'), 'THU',0, 0)) || ' ' || SUM(DECODE(TO\_CHAR (DateChecked, 'DY'), 'THU',0, 0))AS "THU(R,F)",

SUM(DECODE(TO\_CHAR (STARTDATE, 'DY'), 'FRI', 0, 0)) || ' ' || SUM(DECODE(TO\_CHAR (DateChecked, 'DY'), 'FRI', 0, 0)) AS "FRI(R,F)",

SUM(DECODE(TO\_CHAR (STARTDATE, 'DY'), 'SAT', 0, 0)) || ' ' || SUM(DECODE(TO\_CHAR (DateChecked, 'DY'), 'SAT', 0, 0)) AS "SAT(R,F)",

SUM(DECODE(TO\_CHAR (STARTDATE, 'DY'), 'SUN', 0, 0)) || ' ' || SUM(DECODE(TO\_CHAR (DateChecked, 'DY'), 'SUN', 0, 0)) AS "SUN(R,F)",

SUM(0)||','||SUM(0)

FROM VEHICLE V LEFT OUTER JOIN RAGREEMENT R ON V.LICENSENO = R.LICENSENO

LEFT OUTER JOIN FAULTREPORT F ON R.RENTALNO = F.RENTALNO

WHERE OUTNO NOT IN (

SELECT OUTNO

FROM OUTLET JOIN VEHICLE USING(OUTNO)

JOIN RAGREEMENT USING (LICENSENO)

WHERE SYSDATE - STARTDATE < 180)

GROUP BY V.OUTNO

ORDER BY 1;

OUTLET\_NO MON(R,F) TUE(R,F) WED(R,F) THU(R,F) FRI(R,F) SAT(R,F) SUN(R,F) OUTLET\_TOTALS(R,F)

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101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0,0

102 0,1 0,0 0,0 0,0 1,0 0,0 0,0 1,1

103 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0,0

104 0,0 0,1 0,0 0,0 2,0 0,0 1,0 3,1

105 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0,0

106 1,0 0,0 0,0 1,1 0,0 0,0 0,0 2,1

107 0,0 1,0 0,0 0,0 0,0 0,0 0,0 1,0

108 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0,0

WEEKDAY TOTALS 1,1 1,1 0,0 1,1 3,0 0,0 1,0 7,3

9 rows selected.

**Q5)**

COLUMN MANAGER\_INFO FORMAT A25

COLUMN OUTLET\_NO FORMAT A10

SELECT NVL(O.MANAGERNO||' : '||E.FNAME||' '||E.LNAME,'GRAND TOTAL') AS MANAGER\_INFO, TO\_CHAR(O.OUTNO) AS OUTLET\_NO, COUNT(R.RENTALNO) AS NO\_RENTALS,

ROUND((SUM(V.DAILYRATE\* CEIL(R.RETURNDATE - R.STARTDATE))/COUNT(R.RENTALNO)),2) AS AVG\_REVENUE\_PERRENTAL,

ROUND(COUNT(F.LICENSENO)/ COUNT(R.RENTALNO),2) AS AVG\_FAULTREP\_PERRENTAL

FROM

OUTLET O JOIN EMPLOYEE E ON O.MANAGERNO = E.EMPNO

JOIN VEHICLE V ON O.OUTNO = V.OUTNO

JOIN RAGREEMENT R ON V.LICENSENO = R.LICENSENO

LEFT OUTER JOIN FAULTREPORT F ON F.RENTALNO = R.RENTALNO

GROUP BY ROLLUP(O.MANAGERNO||' : '||E.FNAME||' '||E.LNAME, O.OUTNO);

MANAGER\_INFO OUTLET\_NO NO\_RENTALS AVG\_REVENUE\_PERRENTAL AVG\_FAULTREP\_PERRENTAL

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1015 : BERTI TINGLE 106 6 10683.33 .83

1015 : BERTI TINGLE 107 3 229.33 .67

1015 : BERTI TINGLE 108 1 580 1

1015 : BERTI TINGLE 10 6536.8 .8

1001 : EMMY MCKENNAN 101 1 680 1

1001 : EMMY MCKENNAN 102 1 450 1

1001 : EMMY MCKENNAN 103 1 1150 1

1001 : EMMY MCKENNAN 3 760 1

1008 : WALD GAINSBURGH 104 6 583.5 .33

1008 : WALD GAINSBURGH 105 3 870 .67

1008 : WALD GAINSBURGH 9 679 .44

GRAND TOTAL 22 3352.68 .68

12 rows selected.

**Q6)**

SELECT TO\_CHAR(OUTNO) AS OUTLET, A.REVENUE

FROM (

SELECT MAX(REVENUE) AS REVENUE

FROM(

SELECT OUTNO, SUM(DAILYRATE\*CEIL(RETURNDATE - STARTDATE)) AS REVENUE

FROM RAGREEMENT RA

JOIN VEHICLE V ON RA.LICENSENO = V.LICENSENO

WHERE TO\_CHAR(RETURNDATE, 'Q')= 4 AND EXTRACT(YEAR FROM RETURNDATE) = (EXTRACT(YEAR FROM SYSDATE) - 1)

OR

TO\_CHAR(RETURNDATE, 'Q') = 1 AND EXTRACT(YEAR FROM RETURNDATE) = EXTRACT(YEAR FROM SYSDATE)

GROUP BY OUTNO))A

JOIN (

SELECT OUTNO, SUM(DAILYRATE\*CEIL(RETURNDATE - STARTDATE)) AS REVENUE

FROM RAGREEMENT RA

JOIN VEHICLE V ON RA.LICENSENO = V.LICENSENO

WHERE TO\_CHAR(RETURNDATE, 'Q')= 4 AND EXTRACT(YEAR FROM RETURNDATE) = (EXTRACT(YEAR FROM SYSDATE) - 1)

OR

TO\_CHAR(RETURNDATE, 'Q') = 1 AND EXTRACT(YEAR FROM RETURNDATE) = EXTRACT(YEAR FROM SYSDATE)

GROUP BY OUTNO)MAX ON A.REVENUE = MAX.REVENUE

UNION

SELECT TO\_CHAR(OUTNO), B.REVENUE

FROM (

SELECT MIN(REVENUE) AS REVENUE

FROM(

SELECT OUTNO, SUM(DAILYRATE\*CEIL(RETURNDATE - STARTDATE)) AS REVENUE

FROM RAGREEMENT RA

JOIN VEHICLE V ON RA.LICENSENO = V.LICENSENO

WHERE TO\_CHAR(RETURNDATE, 'Q')= 4 AND EXTRACT(YEAR FROM RETURNDATE) = (EXTRACT(YEAR FROM SYSDATE) - 1)

OR

TO\_CHAR(RETURNDATE, 'Q') = 1 AND EXTRACT(YEAR FROM RETURNDATE) = EXTRACT(YEAR FROM SYSDATE)

GROUP BY OUTNO))B

JOIN (

SELECT OUTNO, SUM(DAILYRATE\*CEIL(RETURNDATE - STARTDATE)) AS REVENUE

FROM RAGREEMENT RA

JOIN VEHICLE V ON RA.LICENSENO = V.LICENSENO

WHERE TO\_CHAR(RETURNDATE, 'Q')= 4 AND EXTRACT(YEAR FROM RETURNDATE) = (EXTRACT(YEAR FROM SYSDATE) - 1)

OR

TO\_CHAR(RETURNDATE, 'Q') = 1 AND EXTRACT(YEAR FROM RETURNDATE) = EXTRACT(YEAR FROM SYSDATE)

GROUP BY OUTNO)MIN ON B.REVENUE = MIN.REVENUE;

OUTLET REVENUE

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103 1150

106 504

**Q7)**

COLUMN MAKE FORMAT A15

COLUMN MODEL FORMAT A15

COLUMN NO\_CARS FORMAT A7

COLUMN AVERAGE\_AGE\_CAR FORMAT A15

COLUMN NO\_RENTALS\_THISYEAR FORMAT A15

COLUMN NODAYS\_CAR\_RENTED\_THISYEAR FORMAT A15

COLUMN NODAYS\_CAR\_RENTED\_THISYEAR FORMAT A15

COLUMN NO\_FAULTREPORTS\_THISYEAR FORMAT A15

SELECT NVL(V.MAKE, '[GRAND TOTAL]') AS MAKE,

V.MODEL, TO\_CHAR(COUNT(DISTINCT V.LICENSENO)) AS NO\_CARS,

TO\_CHAR(ROUND(AVG(EXTRACT(YEAR FROM SYSDATE)-V.YEAR),2)) AS AVERAGE\_AGE\_CAR,

TO\_CHAR(COUNT(R.RENTALNO)) AS NO\_RENTALS\_THISYEAR,

TO\_CHAR(NVL(CEIL(SUM(R.RETURNDATE - R.STARTDATE)),0))AS NODAYS\_CAR\_RENTED\_THISYEAR,

TO\_CHAR(COUNT(F.LICENSENO)) AS NO\_FAULTREPORTS\_THISYEAR

FROM VEHICLE V

LEFT OUTER JOIN RAGREEMENT R ON V.LICENSENO = R.LICENSENO AND EXTRACT(YEAR FROM R.RETURNDATE) = EXTRACT(YEAR FROM SYSDATE)

LEFT OUTER JOIN FAULTREPORT F ON F.RENTALNO = R.RENTALNO

GROUP BY ROLLUP(V.MAKE, V.MODEL)

ORDER BY MAKE, MODEL;

MAKE MODEL NO\_CARS AVERAGE\_AGE\_CAR NO\_RENTALS\_THIS NODAYS\_CAR\_RENT NO\_FAULTREPORTS

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CHEVROLET EQUINOX 1 0 1 9 1

CHEVROLET EXPRESS 2500 1 6 0 0 0

CHEVROLET 2 3 1 9 1

FORD BRONCO II 1 7 0 0 0

FORD THUNDERBIRD 1 4 0 0 0

FORD 2 5.5 0 0 0

LAND ROVER RANGE ROVER 1 2 0 0 0

LAND ROVER 1 2 0 0 0

MAYBACH 62 1 6 0 0 0

MAYBACH 1 6 0 0 0

MAZDA MIATA MX-5 1 3 0 0 0

MAZDA 1 3 0 0 0

MERCEDES-BENZ SLR MCLAREN 1 3 0 0 0

MERCEDES-BENZ 1 3 0 0 0

MERCURY MOUNTAINEER 1 4 0 0 0

MERCURY 1 4 0 0 0

PONTIAC GTO 1 6 0 0 0

PONTIAC 1 6 0 0 0

SATURN ION 1 6 1 3 1

SATURN 1 6 1 3 1

SUBARU IMPREZA 1 3 0 0 0

SUBARU 1 3 0 0 0

VOLKSWAGEN BEETLE 1 2 1 2 1

VOLKSWAGEN QX 1 3 0 0 0

VOLKSWAGEN 2 2.5 1 2 1

VOLVO S60 1 2 2 10 1

VOLVO 1 2 2 10 1

[GRAND TOTAL] 15 3.69 5 22 4

28 rows selected.

**Q8)**

COLUMN MAKE FORMAT A25

BREAK BY QUARTER

SELECT 'Q'||A.QUARTER QUARTER,

A.MAKE,

NVL(FAULTS/RENTALS, 0) AS "CHANCE\_OF\_FAULTS",

NVL(RENTALS, 0) "NUMBER",

DENSE\_RANK() OVER (PARTITION BY A.QUARTER ORDER BY(NVL(FAULTS/RENTALS, 0)) DESC) AS RANK

FROM

(SELECT DISTINCT QUARTER, MAKE

FROM

(SELECT MAKE

FROM VEHICLE)

CROSS JOIN

(SELECT TO\_CHAR(LEVEL) QUARTER

FROM DUAL

CONNECT BY LEVEL < = 4))A

LEFT JOIN

(SELECT MAKE,

NVL(TO\_CHAR(FR.DATECHECKED, 'Q'), 'VEHICLE NOT RETURNED') THIS\_QUARTER,

COUNT(REPORTNUM) AS "FAULTS"

FROM FAULTREPORT FR

JOIN VEHICLE V ON FR.LICENSENO = V.LICENSENO AND EXTRACT(YEAR FROM DATECHECKED) = 2017

GROUP BY (MAKE, TO\_CHAR(FR.DATECHECKED, 'Q'))

ORDER BY THIS\_QUARTER)B ON A.MAKE = B.MAKE AND A.QUARTER = B.THIS\_QUARTER

LEFT JOIN

(SELECT MAKE,

NVL(TO\_CHAR(RA.RETURNDATE, 'Q'), 'VEHICLE NOT RETURNED') THIS\_QUARTER,

COUNT(RA.RENTALNO) AS "RENTALS"

FROM VEHICLE V

JOIN RAGREEMENT RA ON RA.LICENSENO = V.LICENSENO AND EXTRACT(YEAR FROM RETURNDATE) = 2017

GROUP BY (MAKE, TO\_CHAR(RA.RETURNDATE, 'Q'))

ORDER BY THIS\_QUARTER)C ON A.MAKE = C.MAKE AND A.QUARTER = C.THIS\_QUARTER

;

QUARTER MAKE CHANCE\_OF\_FAULTS NUMBER RANK

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Q1 LAND ROVER 0 0 1

MAYBACH 0 0 1

FORD 0 0 1

MAZDA 0 0 1

MERCURY 0 0 1

SATURN 0 0 1

PONTIAC 0 0 1

MERCEDES-BENZ 0 0 1

VOLKSWAGEN 0 0 1

CHEVROLET 0 0 1

VOLVO 0 0 1

SUBARU 0 0 1

Q2 MAYBACH 0 0 1

LAND ROVER 0 1 1

VOLKSWAGEN 0 0 1

PONTIAC 0 0 1

MERCURY 0 0 1

MAZDA 0 0 1

FORD 0 0 1

CHEVROLET 0 0 1

SUBARU 0 0 1

MERCEDES-BENZ 0 0 1

SATURN 0 0 1

VOLVO 0 0 1

Q3 MAYBACH 0 0 1

MERCEDES-BENZ 0 0 1

SATURN 0 0 1

MAZDA 0 0 1

MERCURY 0 0 1

VOLKSWAGEN 0 0 1

VOLVO 0 0 1

LAND ROVER 0 0 1

PONTIAC 0 0 1

FORD 0 0 1

CHEVROLET 0 0 1

SUBARU 0 0 1

Q4 SUBARU 1 1 1

MERCURY 0 0 2

CHEVROLET 0 0 2

LAND ROVER 0 0 2

MERCEDES-BENZ 0 0 2

PONTIAC 0 0 2

SATURN 0 0 2

FORD 0 0 2

MAYBACH 0 0 2

VOLKSWAGEN 0 0 2

MAZDA 0 0 2

VOLVO 0 0 2

48 rows selected.

**Q9)**

SELECT B.OUTNO OUTLET,

NVL(CLIENT\_COUNT, 0) NUMBER\_OF\_CLIENTS,

NVL(A.RENTAL\_COUNT, 0) NUMBER\_OF\_RENTALS,

NVL(CAST(ROUND(A.CLIENT\_COUNT/B.TOTAL\_CLIENT\_COUNT, 2) AS DECIMAL(18,2)), 0.00) AS PROPORTION\_CUSTOMERS,

NVL(CAST(ROUND(A.RENTAL\_COUNT/B.TOTAL\_RENTAL\_COUNT, 2) AS DECIMAL(18,2)), 0.00) AS PROPORTION\_RENTAL

FROM

(SELECT O.OUTNO,

COUNT(DISTINCT C.CLIENTNO) AS CLIENT\_COUNT,

COUNT(R.RENTALNO) AS RENTAL\_COUNT

FROM OUTLET O JOIN VEHICLE V ON O.OUTNO = V.OUTNO

JOIN RAGREEMENT R ON R.LICENSENO = V.LICENSENO

JOIN CLIENT C ON C.CLIENTNO = R.CLIENTNO AND O.STATE = C.STATE

GROUP BY O.OUTNO) A

RIGHT OUTER JOIN

(SELECT O.OUTNO,

COUNT(C.CLIENTNO) AS TOTAL\_CLIENT\_COUNT,

COUNT(R.RENTALNO) AS TOTAL\_RENTAL\_COUNT

FROM OUTLET O JOIN VEHICLE V ON O.OUTNO = V.OUTNO

JOIN RAGREEMENT R ON R.LICENSENO = V.LICENSENO

JOIN CLIENT C ON C.CLIENTNO = R.CLIENTNO

GROUP BY O.OUTNO) B ON A.OUTNO = B.OUTNO;

OUTLET NUMBER\_OF\_CLIENTS NUMBER\_OF\_RENTALS PROPORTION\_CUSTOMERS PROPORTION\_RENTAL

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104 1 1 .17 .17

105 2 2 .67 .67

103 0 0 0 0

101 0 0 0 0

106 0 0 0 0

108 0 0 0 0

102 0 0 0 0

107 0 0 0 0

8 rows selected.

**Q10)**

COLUMN EMPLOYEE FORMAT A30

COLUMN STREET FORMAT A27

COLUMN REPORTS\_IN\_LAST90DAYS FORMAT A30

COLUMN OUTNO FORMAT A5

SELECT LEVEL, LPAD(' ', 3\*(LEVEL-1)) || E.EMPNO || ':' || E.FNAME ||' ' || E.LNAME AS EMPLOYEE,

E.POSITION,

TO\_CHAR(E.OUTNO) AS OUTNO,

O.STREET,

TO\_CHAR(NVL(NO\_REPORTS,0)) AS REPORTS\_IN\_LAST90DAYS

FROM EMPLOYEE E JOIN OUTLET O ON E.OUTNO = O.OUTNO

LEFT OUTER JOIN (SELECT EMPNO,

COUNT(REPORTNUM) AS NO\_REPORTS

FROM FAULTREPORT F

WHERE F.DATECHECKED > (SYSDATE - 90)

GROUP BY EMPNO) A ON E.EMPNO = A.EMPNO

START WITH E.EMPNO IN (SELECT EMPNO

FROM EMPLOYEE

WHERE E.SUPERVISORNO IS NULL)

CONNECT BY PRIOR E.EMPNO = E.SUPERVISORNO;

LEVEL EMPLOYEE POSITION OUTNO STREET REPORTS\_IN\_LAST90DAYS

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1 1001:EMMY MCKENNAN SALES REPRESENTATIVE 101 64399 BUTTERFIELD CENTER 0

2 1002:ODIE CHARK SALES REPRESENTATIVE 102 3 GREEN CROSSING 0

3 1005:LEEANN ATTACK SALES REPRESENTATIVE 105 162 DEL SOL ALLEY 0

4 1014:MARYBETH TIPLER MECHANIC 101 64399 BUTTERFIELD CENTER 0

3 1006:MARSH ORRIS SALES REPRESENTATIVE 106 5737 OAK COURT 0

4 1015:BERTI TINGLE SALES REPRESENTATIVE 101 64399 BUTTERFIELD CENTER 0

3 1007:EMMIE TETHACOT MECHANIC 107 693 RAMSEY DRIVE 0

4 1016:MICHAEL SCOTT ADMINISTRATIVE ASSISTANT 103 78726 DOVETAIL LANE 0

2 1003:AVERIL NOAD SALES REPRESENTATIVE 103 78726 DOVETAIL LANE 1

3 1008:WALD GAINSBURGH SALES REPRESENTATIVE 108 7 RIGNEY CIRCLE 0

4 1017:PAM BEASLY MECHANIC 108 7 RIGNEY CIRCLE 0

3 1009:ALLISTER LIBRI MECHANIC 102 3 GREEN CROSSING 0

4 1018:JIM HALPERT SALES REPRESENTATIVE 108 7 RIGNEY CIRCLE 0

3 1010:CATLAINA QUANTICK MECHANIC 106 5737 OAK COURT 0

4 1019:DWIGHT SCHRUTE MECHANIC 102 3 GREEN CROSSING 0

2 1004:TIMMIE WANNES SALES REPRESENTATIVE 104 382 MEADOW RIDGE AVENUE 0

3 1011:JAE SIFLET ADMINISTRATIVE ASSISTANT 107 693 RAMSEY DRIVE 0

4 1020:TOBY ANDERSON SALES REPRESENTATIVE 106 5737 OAK COURT 0

3 1012:ZACK TUCKEY MECHANIC 105 162 DEL SOL ALLEY 1

4 1021:MEREDITH PALMER MECHANIC 107 693 RAMSEY DRIVE 0

3 1013:ELDON SHARPE SALES REPRESENTATIVE 103 78726 DOVETAIL LANE 0

4 1022:RYAN HOWARD ADMINISTRATIVE ASSISTANT 104 382 MEADOW RIDGE AVENUE 0

22 rows selected.