> set FEEDBACK 1

> --Problem 1--

> SELECT MIN(hire\_date) "Longest", MAX(hire\_date) "Shortest"

FROM a\_employee

Longest Shortest

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17-DEC-04 16-JAN-07

1 rows selected

> --Problem 2--

> SELECT AVG(total) "Average", MAX(total) "Maximum", MIN(total) "Minimum", COUNT(order\_id)

FROM a\_sales\_order s JOIN a\_customer c

ON (s.customer\_id = c.customer\_id)

WHERE c.credit\_limit = 4000

Average Maximum Minimum COUNT(ORDER\_ID)

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1809.277778 4400 387.2 18

1 rows selected

> --Problem 3--

> SELECT dept.department\_id, LPAD(ROUND(AVG(emp.salary),2), 8, '$') "Salary"

FROM a\_employee emp JOIN a\_department dept

ON (emp.department\_id = dept.department\_id)

WHERE dept.department\_id = 10

GROUP BY dept.department\_id

DEPARTMENT\_ID Salary

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10 $2916.67

1 rows selected

> --Problem 4--

> SELECT cust.credit\_limit, ROUND(((AVG(sale.total) / cust.credit\_limit) \* 100), 2) "$ of Credit Limit", AVG(sale.total)

FROM a\_customer cust JOIN a\_sales\_order sale

ON (cust.customer\_id = sale.customer\_id)

GROUP BY cust.credit\_limit

HAVING COUNT(cust.credit\_limit) > 10

CREDIT\_LIMIT $ of Credit Limit AVG(SALE.TOTAL)

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5000 71.43 3571.447368

4000 45.23 1809.277778

12000 10.47 1255.95

10000 22.66 2265.75

6000 31.58 1895.0625

5 rows selected

> --Problem 5--

> SELECT prod.product\_id, prod.product\_name, COUNT(DISTINCT item.quantity)

FROM a\_product prod JOIN a\_item item

ON (prod.product\_id = item.product\_id)

GROUP BY prod.product\_id, prod.product\_name

HAVING COUNT(DISTINCT item.quantity) >= 7

ORDER BY COUNT(DISTINCT item.quantity) desc

PRODUCT\_ID PRODUCT\_NAME COUNT(DISTINCTITEM.QUANTITY)

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200376 Snyder Lock Switch 13

103130 Nuke-O-Lator 5000 11

103131 Nuke-O-Lator 1000 10

200380 Grid Regulator 9

100870 Sft Transducer 55 8

100860 Nts Transducer 8

102136 Jarro Grid-O-Master 7

103140 60 Gauge Wire Line 7

105124 Spg Voltmaster 20 7

100861 Aft Transducer 7

10 rows selected

> --Problem 6--

> SELECT emp.department\_id "Dept ID", dept.department\_name "Dept Name", COUNT(emp.employee\_id) "# of Employees", ROUND(AVG(emp.salary), 2) "Average Salary", CASE WHEN emp.department\_id = 10 THEN ROUND((AVG(emp.salary) \* 1.20), 2)

WHEN emp.department\_id = 12 THEN ROUND((AVG(emp.salary) \* 1.10), 2)

WHEN emp.department\_id = 20 THEN ROUND((AVG(emp.salary) \* 1.10), 2)

ELSE ROUND((AVG(emp.salary) \* 1.05), 2)

END AS "New Average Salary"

FROM a\_employee emp JOIN a\_department dept

ON (emp.department\_id = dept.department\_id)

GROUP BY emp.department\_id, dept.department\_name

Dept ID Dept Name # of Employees Average Salary New Average Salary

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13 Sales 5 1485 1559.25

24 Operations 1 1800 1890

34 Operations 1 1875 1968.75

43 Sales 1 1300 1365

12 Research 4 2418.75 2660.63

20 Research 5 2195 2414.5

14 Operations 1 2200 2310

30 Sales 6 1566.67 1645

10 Accounting 3 2916.67 3500

23 Sales 5 1505 1580.25

10 rows selected

> --Problem 7--

> SELECT prod.product\_id, prod.product\_name, SUM(item.quantity) "Number Sold Total", item.actual\_price "Price", (SUM(item.quantity) \* item.actual\_price) "Earnings"

FROM a\_product prod JOIN a\_item item

ON (prod.product\_id = item.product\_id)

GROUP BY prod.product\_id, prod.product\_name, item.actual\_price

HAVING (SUM(item.quantity) \* item.actual\_price) > 15000

PRODUCT\_ID PRODUCT\_NAME Number Sold Total Price Earnings

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100890 75 Gauge Wire Line 511 58 29638

100860 Nts Transducer 528 35 18480

2 rows selected

> --Problem 8--

> SELECT DISTINCT emp.employee\_id, emp.last\_name ||', '|| emp.first\_name "Name", MAX(sales.total) "Largest Sale", SUM(sales.total) "Total Sales", ROUND((MAX(sales.total) / SUM(sales.total) \* 100), 2) "% of Sales"

FROM a\_employee emp LEFT OUTER JOIN a\_customer cust

ON (emp.employee\_id = cust.salesperson\_id)

JOIN a\_sales\_order sales

ON (cust.customer\_id = sales.customer\_id)

GROUP BY emp.employee\_id, emp.last\_name, emp.first\_name

HAVING (MAX(sales.total) / SUM(sales.total) \* 100) > = 75

EMPLOYEE\_ID Name Largest Sale Total Sales % of Sales

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7844 Turner, Mary 46370 58055.9 79.87

7654 Martin, Kenneth 23940 27348 87.54

7521 Ward, Cynthia 8374 9984.2 83.87

3 rows selected

> --Problem 9 --

> SELECT cust.state, TO\_CHAR(sales.order\_date, 'Month') "Month", TO\_CHAR(sales.order\_date, 'YYYY') "Year", SUM(sales.total) "Monthly Sales"

FROM a\_sales\_order sales JOIN a\_customer cust

ON (sales.customer\_id = cust.customer\_id)

GROUP BY cust.state, TO\_CHAR(sales.order\_date, 'Month'), TO\_CHAR(sales.order\_date, 'YYYY')

HAVING (SUM(sales.total) > 6000)

ORDER BY (SUM(sales.total)) desc

STATE Month Year Monthly Sales

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CA February 2011 76127

TX March 2010 12870

TX March 2011 12701.8

CA July 2010 8418.2

TX September 2010 8400

NY October 2011 7320.65

MN February 2011 6400

CA January 2011 6006.4

8 rows selected

> --Problem 10--

> SELECT cust.customer\_id, cust.name, MAX(sales.total) "Max", MIN(sales.total) "Min", AVG(sales.total) "Average", COUNT(sales.order\_id) "Count", ROUND(SUM(sales.total), 2) "Total"

FROM a\_customer cust JOIN a\_sales\_order sales

ON (cust.customer\_id = sales.customer\_id)

WHERE cust.state = 'NY'

GROUP BY cust.customer\_id, cust.name

CUSTOMER\_ID NAME Max Min Average Count Total

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226 Century Shop 1620 1165 1319.666667 3 3959

206 The Coliseum 2135.6 420 1132.325 6 6793.95

205 Point Guard 2356 666.9 1698.633333 3 5095.9

228 Generation First 4400 886 2367 3 7101

201 Stand Down Electronics 3389.2 341.6 1633.32 10 16333.2

203 Rebound Electronics 2044.5 400 1086.52 5 5432.6

6 rows selected