**Lab 3 – SQL III**

**Simple Subqueries with Solutions**

**Exercises**

Load your database with the Pine Valley Furniture Company data and run the following queries:

1. List names of all employees who are managing people with skill ID BS12, list each manger’s name only once, even if that manger manages several people with this skill.

select e1.employeename from employee\_t e1,employee\_t e2 where e2.employeesupervisor=e1.employeeid and e2.employeeid in (select employeeid from employeeskills\_t where skillid='BS12');

employeename

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Robert Lewis

Phil Morris

(2 rows)

1. Display the name of customer 16 and the names of all the customers that are in the same postal code as customer 16.

select customerid, customername,customerpostalcode from customer\_t where customerpostalcode=(select customerpostalcode from customer\_t where customerid=16);

customerid | customername | customerpostalcode

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9 | A Carpet | 13440

16 | ABC Furniture Co. | 13440

(2 rows)

1. Display the employee ID and name for those employees who do not possess the skill Router.

select employeeid, employeename from employee\_t where employeeid not in (select employeeid from employeeskills\_t where skillid=(select skillid from skill\_t where skilldescription='Router'));

employeeid | employeename

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123-44-345 | Phil Morris

332445667 | Lawrence Haley

555955585 | Mary Smith

265955585 | Laura Ellenburg

(4 rows)

1. Calculate the number of computer desks sold by each salesperson.

select salespersonid, sum(orderedquantity) from order\_t natural join orderline\_t where productid=(select productid from product\_t where productdescription like '%Computer Desk%') group by 1;

salespersonid | sum

---------------+-----

3 | 12

5 | 2

6 | 5

9 | 3

| 2

(5 rows)

1. How many raw materials are supplied by Pebbles Hardware?

select count(\*) from supplies\_t where vendorid=(select vendorid from vendor\_t where vendorname='Pebbles Hardware');

count

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127

(1 row)

1. Display the products that are more expensive than Oak Computer Desk.

select productdescription, productstandardprice from product\_t where productstandardprice>all(select productstandardprice from product\_t where productdescription='Oak Computer Desk');

productdescription | productstandardprice

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Entertainment Center | 1650.00

8-Drawer Dresser | 800.00

6' Grandfather Clock | 890.00

7' Grandfather Clock | 1100.00

Amoire | 1200.00

(5 rows)

1. What is the most expensive product?

select productdescription, productstandardprice from product\_t where productstandardprice=(select max(productstandardprice) from product\_t);

productdescription | productstandardprice

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Entertainment Center | 1650.00

(1 row)

1. Display the products that cost less than average.

select productdescription, productstandardprice from product\_t where productstandardprice<(select avg(productstandardprice) from product\_t);

productdescription | productstandardprice

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Cherry End Table | 175.00

Birch Coffee Tables | 200.00

Writer's Desk | 325.00

48 Bookcase | 150.00

48 Bookcase | 175.00

96 Bookcase | 225.00

96 Bookcase | 200.00

Nightstand | 150.00

Writer's Desk | 300.00

High Back Leather Chair | 362.00

Pine End Table | 256.00

| 0.00

| 0.00

(13 rows)