Lab 6 Screenshots

```
--1
SELECT Customers.name, Customers.city
FROM Customers
WHERE Customers.city in
        (SELECT city
        FROM Products
        GROUP BY city
        ORDER BY COUNT(pid)
        LIMIT 1)
LIMIT 1;
```

Output pane

| Data Output | Explain | Messages | History |
| --- | --- | --- | --- |

| | name text | city text |
| --- | --- | --- |
| 1 | Tiptop | Duluth |

```
--2
SELECT name
FROM Products
WHERE priceUSD > (SELECT AVG(priceUSD)
                    FROM Products)
ORDER BY REVERSE(name);
```

Output pane

| Data Output | Explain | Messages | History |
| --- | --- | --- | --- |

| | name text |
| --- | --- |
| 1 | trapper |
| 2 | eraser |

```
--3
SELECT Customers.name, Products.pid, SUM(Orders.totalUSD)
FROM Orders JOIN Customers ON Orders.cid = Customers.cid
          JOIN Products ON Orders.pid = Products.pid
GROUP BY Customers.name, Products.pid
ORDER BY SUM(Orders.totalUSD) ASC;

--4
```

Output pane

**Data Output**  Explain  Messages  History

| | name<br>text | pid<br>character(3) | sum<br>numeric |
|---|---|---|---|
| 1 | Tiptop | p02 | 180.00 |
| 2 | Tiptop | p05 | 450.00 |
| 3 | Tiptop | p01 | 450.00 |
| 4 | Tiptop | p03 | 540.00 |
| 5 | Tiptop | p04 | 540.00 |
| 6 | ACME | p07 | 600.00 |
| 7 | Tiptop | p07 | 720.00 |
| 8 | Tiptop | p06 | 720.00 |
| 9 | Allied | p05 | 1104.00 |
| 10 | ACME | p01 | 1360.00 |
| 11 | Tyrell | p03 | 1624.00 |

```
--4
SELECT Customers.name, COALESCE(SUM(totalUSD), 0)
FROM Orders RIGHT OUTER JOIN Customers ON Orders.cid = Customers.cid
GROUP BY Customers.name
ORDER BY Customers.name ASC;


--5
SELECT Customers.name, Products.name, Agents.name
```

Output pane

| | Data Output | Explain | Messages | History |

| | name<br>text | coalesce<br>numeric |
| --- | --- | --- |
| 1 | ACME | 1960.00 |
| 2 | Allied | 1104.00 |
| 3 | Tiptop | 3600.00 |
| 4 | Tyrell | 1624.00 |
| 5 | Weyland | 0 |

```
--5
SELECT Customers.name, Products.name, Agents.name
FROM Orders JOIN Customers ON Orders.cid = Customers.cid
            JOIN Products ON Orders.pid = Products.pid
            JOIN Agents ON Orders.aid = Agents.aid
WHERE Agents.city = 'Newark'
GROUP BY Customers.name, Products.name, Agents.name;


--6
```

Output pane

| | Data Output | Explain | Messages | History |

| | name<br>text | name<br>text | name<br>text |
| --- | --- | --- | --- |
| 1 | Tiptop | brush | Jones |

```
--6
SELECT *
FROM (SELECT Orders.*, Orders.qty * (1-(discount/100)) * Products.PriceUSD AS calcTotal
       FROM Orders JOIN Customers ON Orders.cid = Customers.cid
                   JOIN Products ON Orders.pid = Products.pid) as foo
WHERE totalUSD != calcTotal;
```

Output pane

**Data Output** | Explain | Messages | History

| | ordnumber integer | month character(3) | cid character(4) | aid character(3) | pid character(3) | qty integer | totalusd numeric(12,2) | calctotal numeric |
|---|---|---|---|---|---|---|---|---|
| 1 | 1021 | Feb | c004 | a06 | p01 | 1000 | 460.00 | 457.5000000000000000000000 |
| 2 | 1026 | May | c002 | a05 | p03 | 800 | 744.00 | 704.0000000000000000000000 |