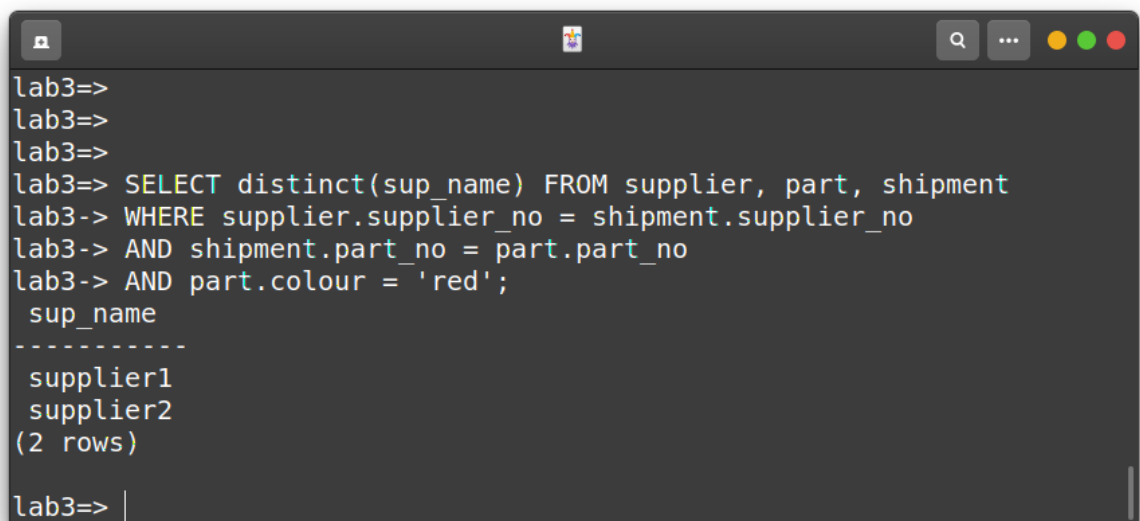


CS313 - Assignment 3

Q5. Execute the following queries.

1. list supplier who have supplied red parts

```
SELECT distinct(sup_name) FROM supplier, part, shipment
WHERE supplier.supplier_no = shipment.supplier_no
AND shipment.part_no = part.part_no
AND part.colour = 'red';
```

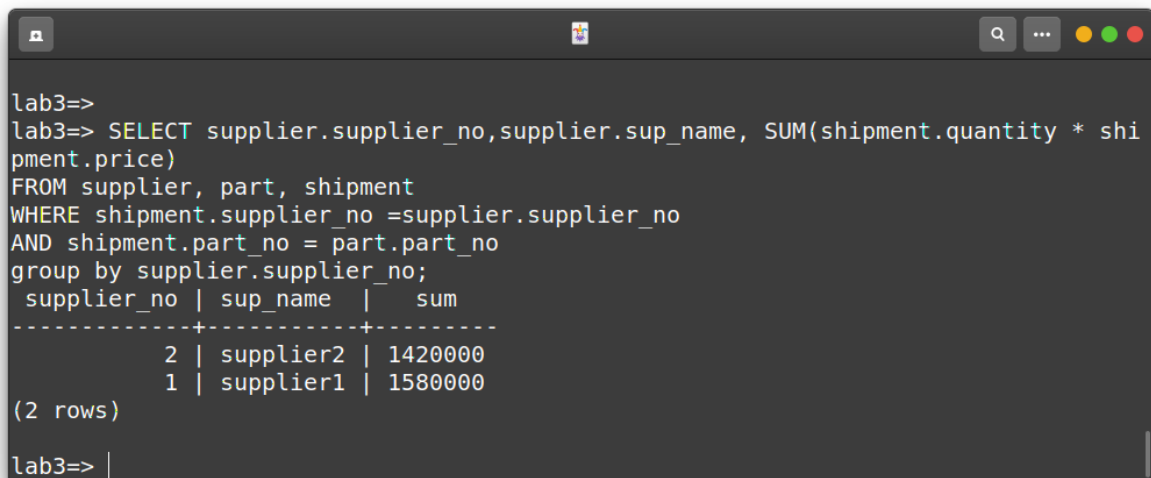
A screenshot of a terminal window with a dark background. The window has standard macOS window controls (red, yellow, green buttons) in the top right corner. The terminal shows a series of commands and their output. The first three lines are 'lab3=>' followed by a blank line. The fourth line is a SQL query: 'SELECT distinct(sup_name) FROM supplier, part, shipment'. The next three lines are 'lab3->' followed by 'WHERE supplier.supplier_no = shipment.supplier_no', 'AND shipment.part_no = part.part_no', and 'AND part.colour = 'red';'. The output shows 'sup_name' followed by a dashed line, then 'supplier1' and 'supplier2', and '(2 rows)'. The final line is 'lab3=> |' with a cursor.

```
lab3=>
lab3=>
lab3=>
lab3=> SELECT distinct(sup_name) FROM supplier, part, shipment
lab3-> WHERE supplier.supplier_no = shipment.supplier_no
lab3-> AND shipment.part_no = part.part_no
lab3-> AND part.colour = 'red';
sup_name
-----
supplier1
supplier2
(2 rows)

lab3=> |
```

2. get total cost of shipments for all suppliers for making payments to them

```
SELECT supplier.supplier_no,supplier.sup_name, SUM(shipment.quantity *
shipment.price)
FROM supplier, part, shipment
WHERE shipment.supplier_no =supplier.supplier_no
AND shipment.part_no = part.part_no
group by supplier.supplier_no;
```

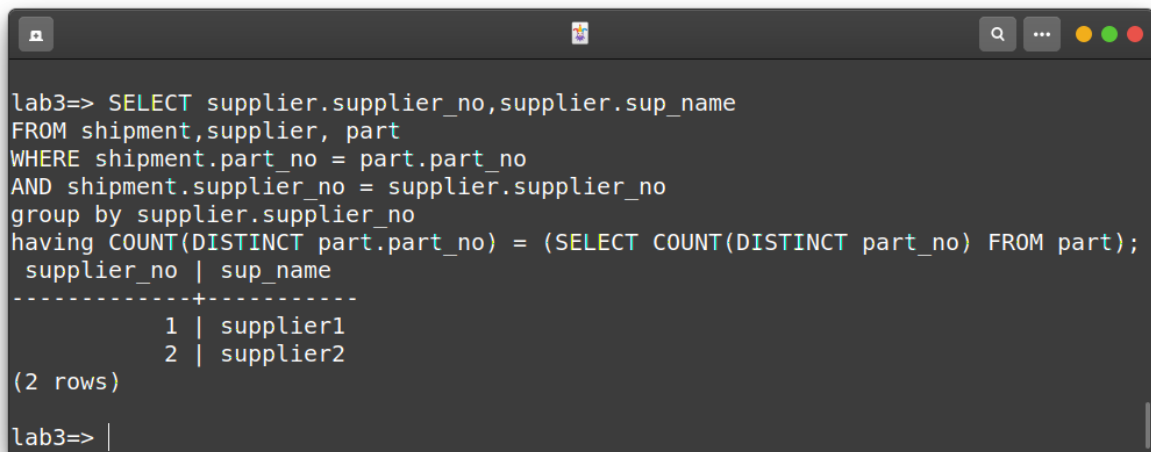


```
lab3=>
lab3=> SELECT supplier.supplier_no,supplier.sup_name, SUM(shipment.quantity * shi
pment.price)
FROM supplier, part, shipment
WHERE shipment.supplier_no =supplier.supplier_no
AND shipment.part_no = part.part_no
group by supplier.supplier_no;
supplier_no | sup_name | sum
-----+-----+-----
          2 | supplier2 | 1420000
          1 | supplier1 | 1580000
(2 rows)

lab3=> |
```

3. list suppliers who have supplied all parts.

```
SELECT supplier.supplier_no,supplier.sup_name
FROM shipment,supplier, part
WHERE shipment.part_no = part.part_no
      AND shipment.supplier_no = supplier.supplier_no
      group by supplier.supplier_no
      having COUNT(DISTINCT part.part_no) = (SELECT
COUNT(DISTINCT part_no) FROM part);
```

A terminal window with a dark background and light text. The window title bar shows standard macOS window controls (red, yellow, green buttons) and a search icon. The terminal content shows a SQL query being executed, followed by the results of the query, which are two rows of data. The prompt 'lab3=>' is visible at the start of the command and at the bottom of the window.

```
lab3=> SELECT supplier.supplier_no,supplier.sup_name
FROM shipment,supplier, part
WHERE shipment.part_no = part.part_no
AND shipment.supplier_no = supplier.supplier_no
group by supplier.supplier_no
having COUNT(DISTINCT part.part_no) = (SELECT COUNT(DISTINCT part_no) FROM part);
supplier_no | sup_name
-----+-----
          1 | supplier1
          2 | supplier2
(2 rows)

lab3=> |
```

.SQL file

```
INSERT INTO part (part_no,part_name,colour,weight) VALUES (1, 'part1', 'red', 100.00);
INSERT INTO part (part_no,part_name,colour,weight) VALUES (2, 'part2', 'yellow', 200.00);
INSERT INTO part (part_no,part_name,colour,weight) VALUES (3, 'part3', 'green', 300.00);
INSERT INTO part (part_no,part_name,colour,weight) VALUES (4, 'part4', 'red', 400.00);
INSERT INTO supplier (supplier_no,sup_name,city,bank) VALUES (1, 'supplier1', 'Chennai','equitas');
INSERT INTO supplier (supplier_no,sup_name,city,bank) VALUES (2, 'supplier2', 'Mumbai','SBI');
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (1, 1, 1,'2020-08-19', 10000, 10.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (2, 1, 2,'2020-08-10', 20000, 11.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (3, 1, 1,'2020-09-19', 30000, 9.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (4, 1, 2,'2020-09-10', 10000, 9.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (5, 2, 1,'2020-08-19', 20000, 10.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (6, 2, 2,'2020-08-10', 20000, 11.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (7, 2, 1,'2020-09-19', 30000, 9.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (8, 2, 2,'2020-09-10', 10000, 9.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (9, 3, 1,'2020-08-19', 10000, 10.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (10, 3, 2,'2020-08-10', 20000, 11.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (11, 3, 1,'2020-09-19', 30000, 9.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (12, 3, 2,'2020-09-10', 20000, 9.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (13, 4, 1,'2020-08-19', 10000, 10.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (14, 4, 2,'2020-08-10', 20000, 11.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (15, 4, 1,'2020-09-19', 30000, 9.0);
INSERT INTO shipment (shipment_no,part_no,supplier_no,date,quantity,price) VALUES (16, 4, 2,'2020-09-10', 20000, 9.0);
```