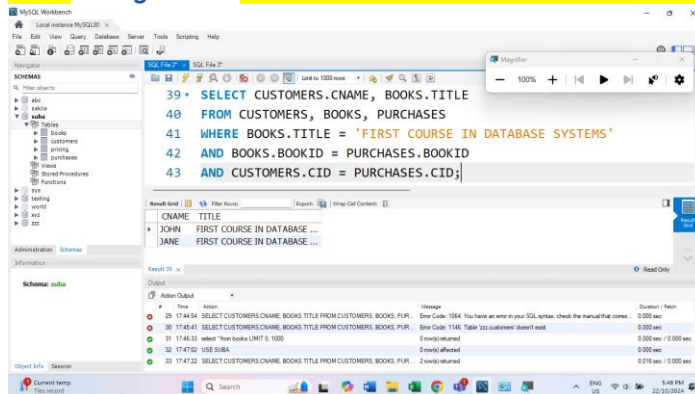


LAB WEEK 6

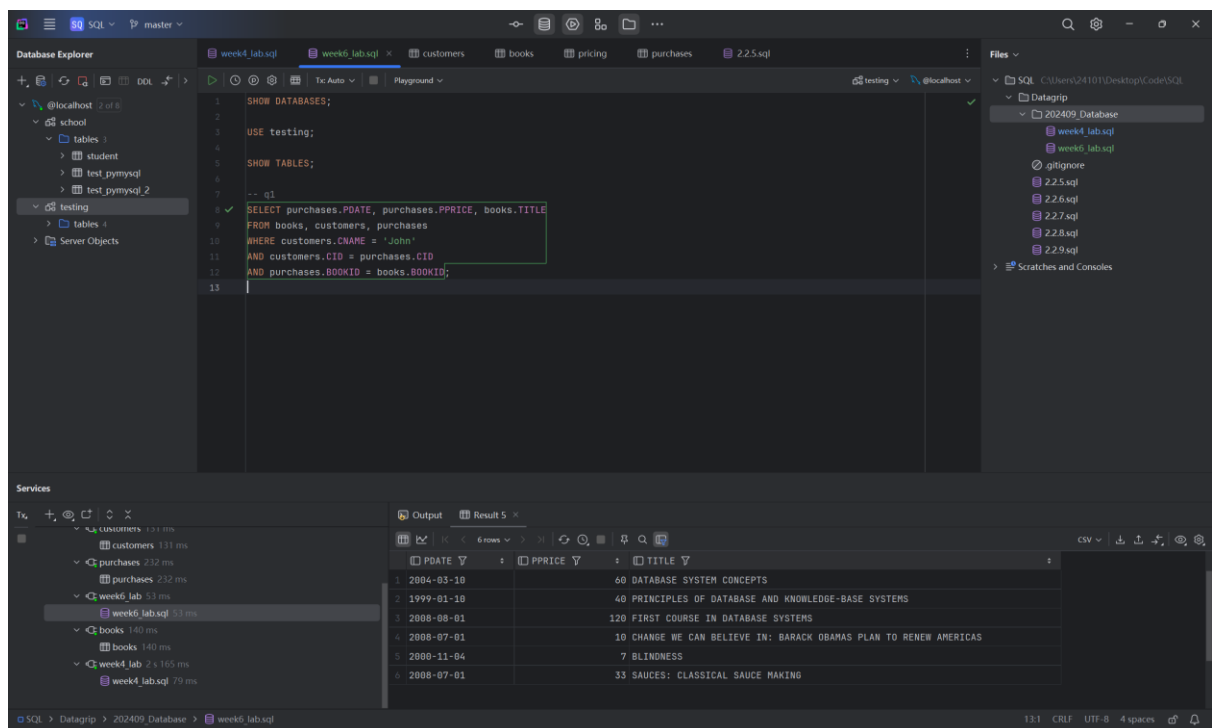
Answer the questions. Predict the relevant input query and screen shot your output tables.

Based on the Customer-Book-Pricing- Purchases scenario from **lab week 5** lab session. Answer the following:

1. Who bought the book names 'First Course in Database Systems'?



2. Find the purchase date, price, and title of the book which is purchased 'John'.



3. Find book's title, and format of the book/s which is purchased by 'Terry'.

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Database Explorer' with the 'testing' database selected. The central pane contains a SQL query script with the following content:

```
1 SHOW DATABASES;
2
3 USE testing;
4
5 SHOW TABLES;
6
7 -- q1
8 SELECT purchases.PDATE, purchases.PPRICE, books.TITLE
9 FROM books, customers, purchases
10 WHERE customers.CNAME = 'John'
11 AND customers.CID = purchases.CID
12 AND purchases.BOOKID = books.BOOKID;
13
14 -- q2
15 SELECT books.TITLE, pricing.FORMAT
16 FROM customers, books, pricing, purchases
17 WHERE customers.CNAME = 'Terry'
18 AND books.BOOKID = pricing.BOOKID
19 AND customers.CID = purchases.CID
20 AND purchases.BOOKID = pricing.BOOKID;
```

The right pane shows the 'Output' window with the results of the query. The results are displayed in a table with two columns: 'TITLE' and 'FORMAT'. The results are as follows:

TITLE	FORMAT
BLINDNESS	PAPERBACK

The bottom pane shows the 'Services' window with a list of services and their execution times.

4. What's the sum of the price of book format 'paperback'?

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Database Explorer' with the 'testing' database selected. The central pane contains a SQL query script with the following content:

```
1 SHOW TABLES;
2
3 -- q1
4 SELECT purchases.PDATE, purchases.PPRICE, books.TITLE
5 FROM books, customers, purchases
6 WHERE customers.CNAME = 'John'
7 AND customers.CID = purchases.CID
8 AND purchases.BOOKID = books.BOOKID;
9
10 -- q2
11 SELECT books.TITLE, pricing.FORMAT
12 FROM customers, books, pricing, purchases
13 WHERE customers.CNAME = 'Terry'
14 AND books.BOOKID = pricing.BOOKID
15 AND customers.CID = purchases.CID
16 AND purchases.BOOKID = pricing.BOOKID;
17
18 -- q3
19 SELECT sum(PRICE) AS sum_price_of_paperback
20 FROM pricing
21 WHERE pricing.FORMAT = 'paperback';
```

The right pane shows the 'Output' window with the results of the query. The results are displayed in a table with two columns: 'BOOKID' and 'PRICE'. The results are as follows:

BOOKID	PRICE
101	33
102	120
103	35
104	130
105	13
106	7
107	18
108	14
109	45

The bottom pane shows the 'Services' window with a list of services and their execution times.

5. Who purchase the book for more than 110 of purchased price?

The screenshot shows the SQL Server Enterprise Manager interface. The central pane displays a SQL query in the 'testing' database. The query is as follows:

```

11 AND customers.CID = purchases.CID
12 AND purchases.BOOKID = books.BOOKID;
13
14 -- q2
15 SELECT books.TITLE, pricing.FORMAT
16 FROM customers, books, pricing, purchases
17 WHERE customers.CNAME = 'Terry'
18 AND books.BOOKID = pricing.BOOKID
19 AND customers.CID = purchases.CID
20 AND purchases.BOOKID = pricing.BOOKID;
21
22 -- q3
23 SELECT sum(PRICE) AS sum_price_of_paperback
24 FROM pricing
25 WHERE pricing.FORMAT = 'paperback';
26
27 -- q4
28 SELECT DISTINCT customers.CNAME
29 FROM customers, purchases
30 WHERE purchases.PPRICE > 110
31 AND customers.CID = purchases.CID;
32

```

The results pane shows the output of the query, which is a list of customer names:

CNAME
JOHN
JANE

The Services pane at the bottom shows the execution plan for the query, indicating that the query was executed in 56 ms.

6. Find the book's identification and name of the book which rate (book price) at 45?

The screenshot shows the SQL Server Enterprise Manager interface. The central pane displays a SQL query in the 'testing' database. The query is as follows:

```

18 AND customers.CID = purchases.CID
19 AND purchases.BOOKID = pricing.BOOKID;
20
21 -- q3
22 SELECT sum(PRICE) AS sum_price_of_paperback
23 FROM pricing
24 WHERE pricing.FORMAT = 'paperback';
25
26 -- q4
27 SELECT DISTINCT customers.CNAME
28 FROM customers, purchases
29 WHERE purchases.PPRICE > 110
30 AND customers.CID = purchases.CID;
31
32 -- q5
33 SELECT books.CATEGORY, books.TITLE
34 FROM books, pricing
35 WHERE pricing.PRICE = 45
36 AND books.BOOKID = pricing.BOOKID;
37
38
39

```

The results pane shows the output of the query, which is a list of book categories and titles:

CATEGORY	TITLE
COOKING	SAUCES: CLASSICAL SAUCE MAKING

The Services pane at the bottom shows the execution plan for the query, indicating that the query was executed in 57 ms.

7. Find the customer's information who bought the book from year published after 2000.

The screenshot displays the SQL Server Enterprise Manager interface. The central pane shows a SQL query being executed. The query is as follows:

```
31 AND customers.CID = purchases.CID;
32
33 -- q5
34 SELECT books.CATEGORY, books.TITLE
35 FROM books, pricing
36 WHERE pricing.PRICE = 45
37 AND books.BOOKID = pricing.BOOKID;
38
39 -- q7
40
41
42 ✓ SELECT DISTINCT customers.*
43 FROM customers, books, purchases
44 WHERE books.YEAR > 2000
45 AND books.BOOKID = purchases.BOOKID
46 AND customers.CID = purchases.CID;
47
48
49
50
51
52
53
54
```

The results pane on the right shows the output of the query, which is a table with 8 rows and 3 columns: CID, CNAME, and AGE. The data is as follows:

CID	CNAME	AGE
1	JOHN	20
2	MARY	18
3	JANE	28
4	ANN	40
5	JOYCE	33
6	TERRY	25
7	CLAIRE	80
8	JOHN	60

The bottom pane shows the 'Services' section, which lists the following services and their execution times:

- customers: 56 ms
- customers: 56 ms
- customers: 56 ms
- purchases: 60 ms
- purchases: 60 ms
- week6_lab: 49 ms
- week6_lab.sql: 49 ms
- books: 54 ms