1. Obtain information (editor id, editor first name, editor last name) of the editors who have edited the book whose ISBNCode is '8330418998'.

SELECT eid, fname, lname

FROM Editor;

2. Retrieve the customers' names who bought novels. Order the result in the descending order of customer name. (Book type is novel).

SELECT DISTINCT c.name

FROM Customer AS c, Orders AS o, Order_book AS ob, Book AS b WHERE c.cid = o.cid AND o.oid = ob.oid AND ob.isbn = b.isbn AND btype = 'Novel'

ORDER BY name DESC;

3. Get all publishers information (publisher name, address) which have published textbooks. If a publisher published more than one book, list the publisher only once in your result.

SELECT DISTINCT p.name, p.address

FROM Publisher AS p, Book AS b

WHERE p.pid = b.pid AND b.btype = 'Textbook';

4. Retrieve the author Id, author's first name, author's last name, and number of novel books written, if an author has written more than 2 novel books. Both sole-authoring and co-authoring activities should be considered as writing a book.

SELECT DISTINCT a.aid, a.fname, a.lname, COUNT(*)

FROM Author AS a, Written_by AS w, Book AS b

WHERE a.aid = w.aid AND w.isbn = b.isbn AND b.btype = 'Novel'

GROUP BY a.aid

HAVING COUNT(*) > 2;

```
mysql> SELECT DISTINCT a.aid, a.fname, a.lname, COUNT(*)

-> FROM Author AS a, Written_by AS w, Book AS b

-> WHERE a.aid = w.aid AND w.isbn = b.isbn AND b.btype = 'Novel'

-> GROUP BY a.aid

-> HAVING COUNT(*) > 2;

| aid | fname | lname | COUNT(*) |

| 2222 | Lauren | author2 | 3 |

1 row in set (0.00 sec)
```

5. Get authors information (first name, last name) who has written the book 'Fundamentals of Database Systems'.

SELECT a.fname, a.lname

FROM Author AS a, Written by AS w, Book AS b

WHERE a.aid = w.aid AND w.isbn = b.isbn AND b.title = 'Fundamentals of Database Systems';

```
mysq1> SELECT a.fname, a.lname
   -> FROM Author AS a, Written_by AS w, Book AS b
   -> WHERE a.aid = w.aid AND w.isbn = b.isbn AND b.title = 'Fundamentals of Database Systems';
+-----+
| fname | lname |
+-----+
| Aron | author1 |
+-----+
1 row in set (0.00 sec)
```

6. Get the books information (title, type and ISBN) written by author 'Jeff Smith'.

SELECT b.title, b.btype, b.isbn

FROM Author AS a, Written by AS w, Book AS b

WHERE a.aid = w.aid AND w.isbn = b.isbn AND a.fname = 'Jeff' AND a.lname = 'Smith';

7. Get information (publisher id, publisher name, phone) about publishers who have published more than 2 novels.

SELECT DISTINCT p.pid, p.name, p.phone

FROM Publisher AS p, Book as b

WHERE p.pid = b.pid AND b.btype = 'Novel'

GROUP BY p.pid

HAVING COUNT(*) > 2;

8. Obtain the highest price of the books that are written by author "Jeff Smith". List the price.

SELECT MAX(price)

FROM Author AS a, Written_by AS w, Book AS b

WHERE a.aid = w.aid AND w.isbn = b.isbn AND a.fname = 'Jeff' AND a.lname = 'Smith';

9. List the editor Id and number of books edited, if the editor has edited more than 2 books.

Both sole-editing and co-editing activities should be considered as editing a book.

SELECT DISTINCT e.eid, COUNT(*)

FROM Editor AS e, Edited_by AS eb, Book AS b

WHERE e.eid = eb.eid AND eb.isbn = b.isbn

GROUP BY e.eid

HAVING COUNT(*) > 2;

```
mysql> SELECT DISTINCT e.eid, COUNT(*)
    -> FROM Editor AS e, Edited_by AS eb, Book AS b
    -> WHERE e.eid = eb.eid AND eb.isbn = b.isbn
    -> GROUP BY e.eid
    -> HAVING COUNT(*) > 2;
+----+
| eid | COUNT(*) |
+----+
| 2222 | 6 |
| 3333 | 3 |
+----+
2 rows in set (0.00 sec)
```

10. List all orders (order id, order date) that ordered by customer named "Alice Kay";

SELECT o.oid, o.order date

FROM Customer AS c, Orders AS o

WHERE c.cid = o.cid AND c.name = 'Alice Kay'

ORDER BY o.oid DESC;

11. List all books (ISBN, title, price) that are ordered by customer named "Alice Kay". If she ordered the same book more than once or more than one copy, please only display the book once in the result. Order the result by book title in ascending order.

SELECT DISTINCT b.isbn, b.title, b.price

FROM Customer AS c, Orders AS o, Order_book AS ob, Book AS b

WHERE c.cid = o.cid AND o.oid = ob.oid AND ob.isbn = b.isbn AND

c.name = 'Alice Kay'

ORDER BY b.title ASC;

12. List all the orders (order_no, order date) that include "Fundamentals of Database Systems".

SELECT o.oid, o.order_date FROM Orders AS o, Order_book AS ob, Book AS b WHERE o.oid = ob.oid AND ob.isbn = b.isbn AND b.title =

13. List how many orders are placed before "2019-08-11'.

SELECT COUNT(*)

FROM Orders AS o

WHERE o.order date < '2019-08-11';

```
mysql> SELECT COUNT(*)
    -> FROM Orders AS o
    -> WHERE o.order_date < '2019-08-11';
+-----+
| COUNT(*) |
+-----+
| 4 |
+-----+
1 row in set (0.00 sec)</pre>
```

14. For customers who had made more than 2 orders so far, list customer Id, customer name, and number of orders that the customer has made.

SELECT c.cid, c.name, COUNT(*) FROM Customer AS c, Orders AS o WHERE c.cid = o.cid GROUP BY c.cid HAVING COUNT(*) > 2;

15. Retrieve book (or books) that has(have) the highest price among all books. Please list book tile and price.

SELECT b1.title, b1.price FROM Book AS b1 JOIN (SELECT MAX(price) AS mprice FROM Book) AS b2 ON mprice = b1.price;