1)Convert bookstore.xml into json

.xml file

```
<bookstore>
```

Json

```
"bookstore": {

"book": [

{

"title": "Harry Potter",

"author": "J.K. Rowling",

"price": 29.99,

"available": true

},
```

```
"title": "The Hobbit",

"author": "J.R.R. Tolkien",

"price": 19.99,

"available": false

}

]

}
```

2)Write a query to give inner join, left outer join, right outer join and full outer join.

→ Description

Inner Join:

- An inner join returns only the rows that have matching values in both tables based on the specified condition.
- It selects records that have matching values in both tables' columns being joined.
- If there is no match found, the rows from both tables will be excluded from the result set.
- Inner joins are typically the most common type of join used in SQL queries.

Left Outer Join:

- A left outer join returns all the rows from the left table, and the matching rows from the right table. If there is no match found in the right table, NULL values are included in the result set for the columns from the right table.
- It preserves the unmatched rows from the left table.

Right Outer Join:

• A right outer join returns all the rows from the right table, and the matching rows from the left table. If there is no match found in the left table, NULL values are included in the result set for the columns from the left table.

It preserves the unmatched rows from the right table.

Full Outer Join:

- A full outer join returns all the rows when there is a match in either the left or right table. If there is no match found, NULL values are included in the result set for the columns from the other table.
- It includes all the rows from both tables, regardless of whether there is a match or not.

→Queries

```
mysql> select empid,first_name,last_name,deptname from employee
inner join department on employee.depid=department.depid
```

```
/
+-----+
| empid | first_name | last_name | deptname |
+-----+
| 1 | john | doe | HR |
| 2 | jane | smith | sales |
| 3 | mike | johnson | IT |
| 4 | emily | davis | HR |
+-----+
4 rows in set (0.00 sec)
```

mysql> select empid,first_name,last_name,deptname from employee left
outer join department on employee.depid=department.

```
depid;
+----+
| empid | first_name | last_name | deptname |
+----+
| 1 | john | doe | HR |
| 2 | jane | smith | sales |
```

```
3 | mike | johnson | IT |
   4 | emily
           | davis | HR
+----+
4 rows in set (0.00 sec)
mysql> select empid, first name, last name, deptname from employee
right outer join department on employee.depid=department
.depid;
+----+
| empid | first name | last name | deptname |
+----+
  4 | emily | davis | HR
  1 | john | doe | HR
  3 | mike | johnson | IT |
| NULL | NULL | Marketing |
+----+
5 rows in set (0.00 sec)
```

3) Write a query to find duplicate records

+----+

Based on firstname.

Based on email.

Based on firstname, lastname.

Based on firstname, email.