

MCQS:

Topic: GIT, Version Control System

git log --since="2 weeks ago"

Topic: Maven

Pre-integration-test

Topic: JSP

- Problem Description 1: Option 1 (True)
- Problem Description 2: Option 2 (doTag())

Topic: Stream API

AA

Topic: Spring AOP

Dependency Injection (DI) and Inversion of Control (IoC)

Topic: JPA/Hibernate

@OneToOne unidirectional.

Topic: SpringBoot

- Option 2: Spring Security
- Option 5: Request mapping annotations

Topic: CI/CD

- Option 2: Containers are more lightweight than VMs
- Option 4: Containers provide faster start-up time and are ideal for scaling up applications

Topic: Jenkins

Inspect the Jenkins log files and investigate the network-related issues or server misconfigurations.

The screenshot displays the Eclipse IDE interface with the following components:

- Package Explorer:** Shows the project structure with packages like `com.example.seasonalactivities` and `SeasonalActivityOrganizer`.
- Editor:** Displays the `Main.java` file with the following code:

```
1 package com.example.seasonalactivities;
2
3 public class Main {
4     public static void main(String[] args) {
5         SeasonalActivityOrganizer organizer = new SeasonalActivityOrganizer();
6
7         // Adding activities to seasons
8         organizer.addActivityForSeason(Activity.HIKING, Season.SPRING);
9         organizer.addActivityForSeason(Activity.SWIMMING, Season.SUMMER);
10        organizer.addActivityForSeason(Activity.SKIING, Season.WINTER);
11
12        // Getting all activities
13        System.out.println(organizer.getAllActivities());
14
15        // Getting activities for specific seasons
16        System.out.println(organizer.getActivitiesForSeason(Season.SPRING));
17        System.out.println(organizer.getActivitiesForSeason(Season.SUMMER));
18        System.out.println(organizer.getActivitiesForSeason(Season.WINTER));
19
20        // Removing an activity from all seasons
21        organizer.removeActivityFromAllSeasons(Activity.HIKING);
22        System.out.println(organizer.getActivitiesForSeason(Season.SPRING));
23    }
24 }
```
- Console:** Shows the output of the program:

```
<terminated> Main (1) [Java Application] C:\Program Files\Java\jdk1.8.0_202\bin\javaw.exe [Jul 15, 2024, 2:45:46 PM - 2:45:46 PM] [pid: 14752]
[HIKING, SWIMMING, SKIING]
[HIKING]
[SWIMMING]
[SKIING]
[]
```
- Outline:** Shows the class structure with `Main` and `main(String[]) : void`.

Output of Java Coding

Browser tabs: (3) WhatsApp, ChatGPT, Your Repositories, New Tab, Create Task

Address bar: localhost:9360/TaskManager/

Bookmarks: TCS ION Career Edg..., service based papers, JobBoard - Preplinst..., You are signed in as..., Oracle Live SQL

Create a New Task

Task Title:

Task Description:

Due Date:

Priority:

Browser tabs: (3) WhatsApp, ChatGPT, Your Repositories, New Tab, Error

Address bar: localhost:9360/TaskManager/error.jsp

Bookmarks: TCS ION Career Edg..., service based papers, JobBoard - Preplinst..., You are signed in as..., Oracle Live SQL

Failed to create task. Please fill in all the required fields.

(3) WhatsApp

ChatGPT

Your Repositories

New Tab

Create Task

localhost:9360/TaskManager/

TCS ION Career Edg...service based papersJobBoard - Prepinst...You are signed in as...Oracle Live SQL

All Bookmarks

Create a New Task

Task Title:

mano

Task Description:

mano31

Due Date:

07/17/2024

Priority:

Low

Create Task

(3) WhatsApp

ChatGPT

Your Repositories

New Tab

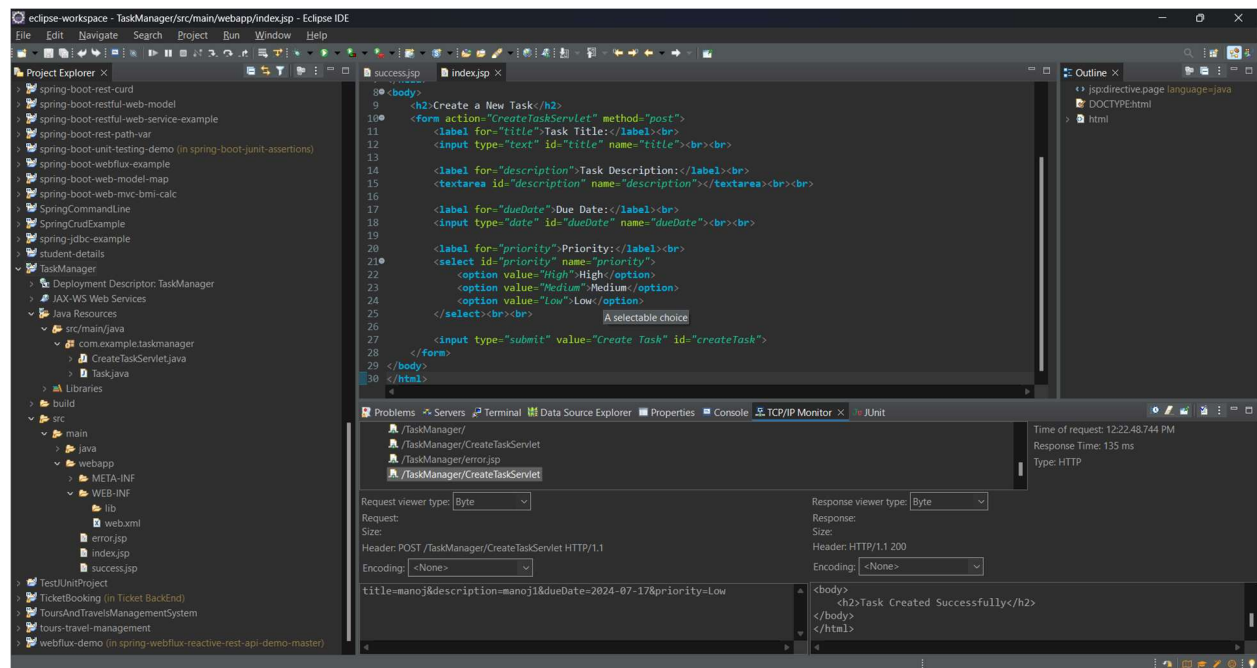
Success

localhost:9360/TaskManager/CreateTaskServlet

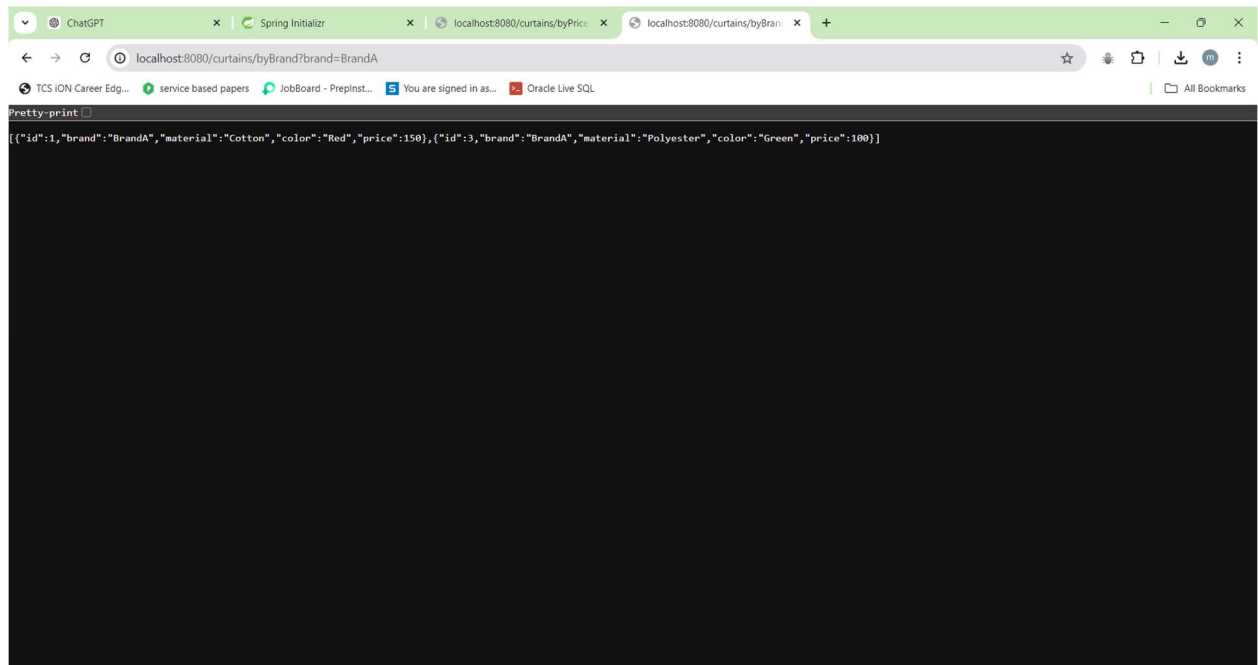
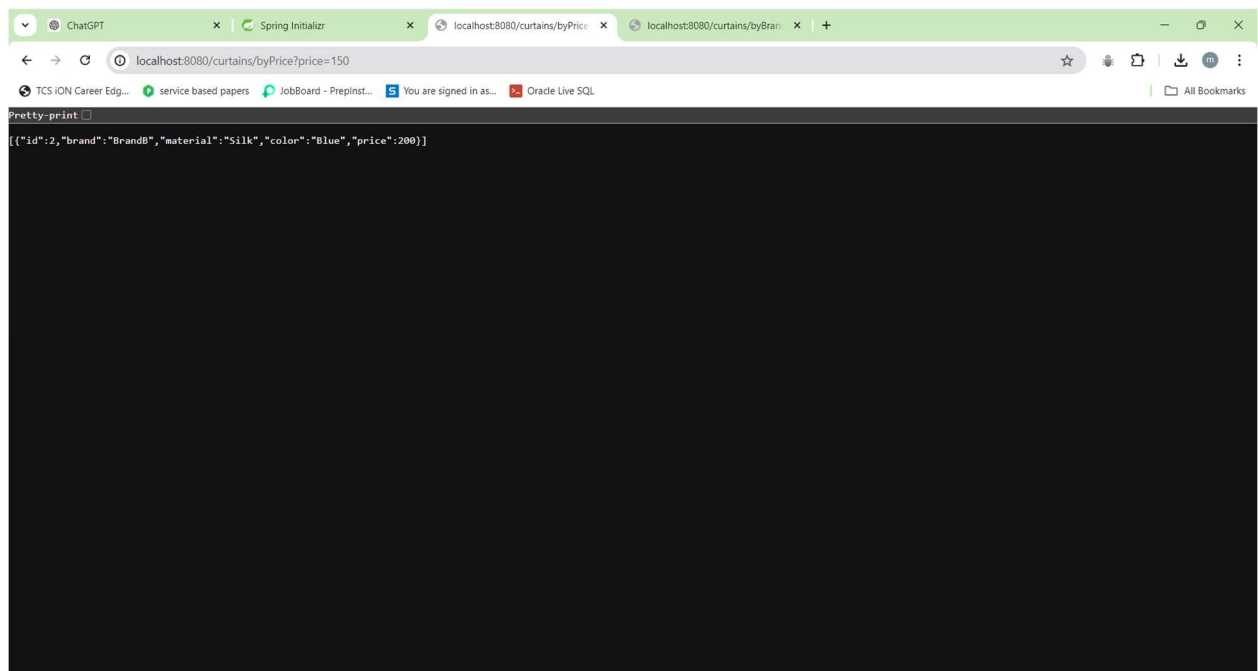
TCS ION Career Edg...service based papersJobBoard - Prepinst...You are signed in as...Oracle Live SQL

All Bookmarks

Task Created Successfully



Outputs of JSP Full Stack



```
1 package com.example.curtainmodel.entity;
2
3 import jakarta.persistence.Entity;
4 import jakarta.persistence.GeneratedValue;
5 import jakarta.persistence.GenerationType;
6 import jakarta.persistence.Id;
7
8 @Entity
9 public class Curtain {
10     @Id
11     @GeneratedValue(strategy = GenerationType.IDENTITY)
12     private int id;
13     private String brand;
14     private String material;
15     private String color;
16     private int price;
17
18     // Getters and setters
19     public int getId() {
20         return id;
21     }
22
23     public void setId(int id) {
24         this.id = id;
25     }
26 }
```

Console Output:

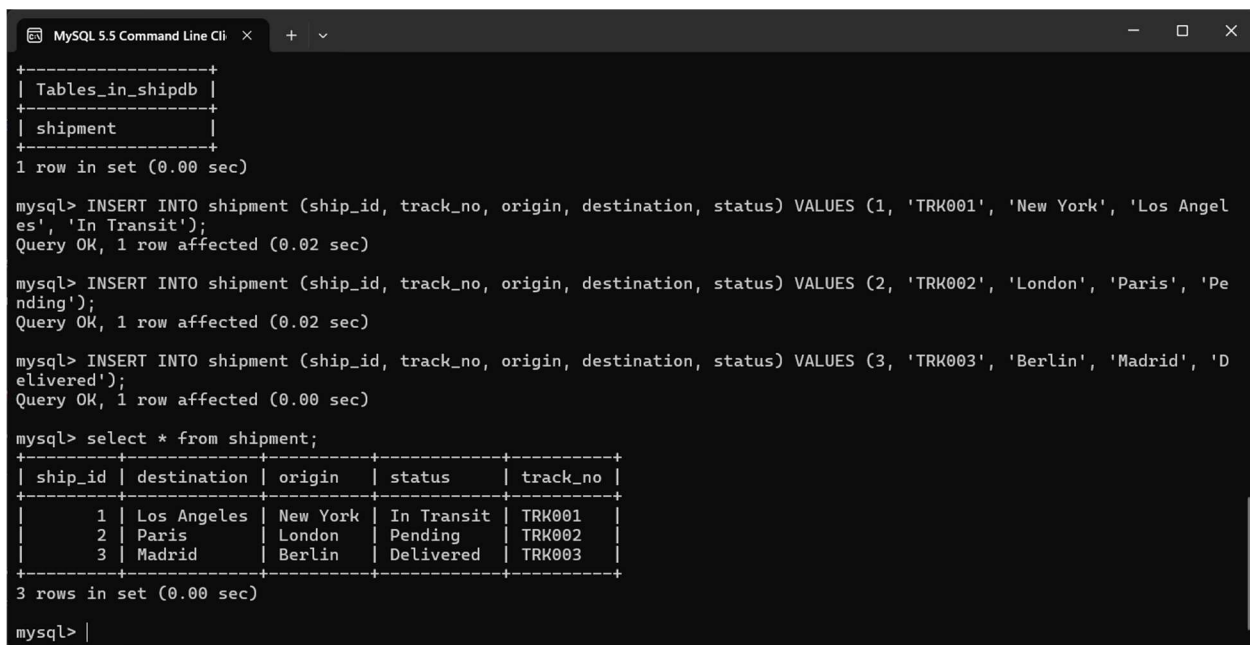
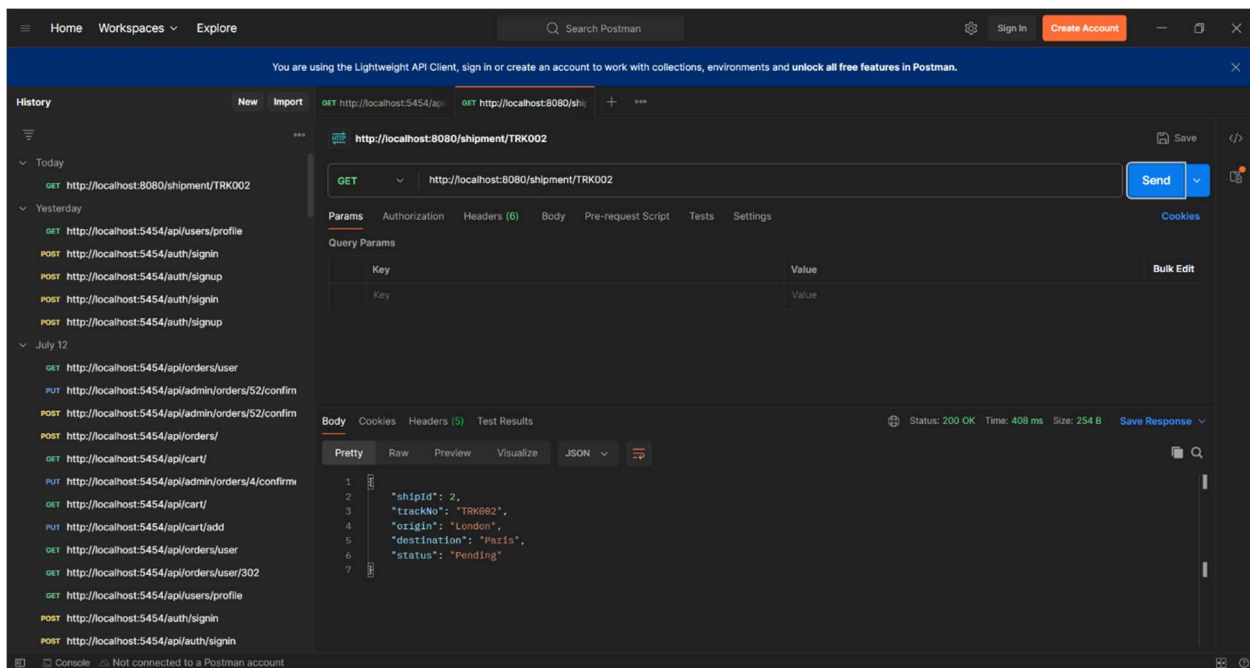
```
2024-07-15T16:47:01.808+05:30 INFO 13092 --- [Curtain Model] [main] o.h.e.t.j.p.i.JpaPlatformInitiator : HH8080489: No JPA platform found
2024-07-15T16:47:01.849+05:30 INFO 13092 --- [Curtain Model] [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory
2024-07-15T16:47:02.129+05:30 INFO 13092 --- [Curtain Model] [main] o.s.d.j.r.query.QueryEnhancerFactory : Hibernate is in classpath; I
2024-07-15T16:47:02.533+05:30 WARN 13092 --- [Curtain Model] [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is e
2024-07-15T16:47:02.928+05:30 INFO 13092 --- [Curtain Model] [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8080
2024-07-15T16:47:02.944+05:30 INFO 13092 --- [Curtain Model] [main] c.e.c.CurtainModelApplication : Started CurtainModelApplicat
2024-07-15T16:48:15.096+05:30 INFO 13092 --- [Curtain Model] [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring Dispatc
2024-07-15T16:48:15.096+05:30 INFO 13092 --- [Curtain Model] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispat
2024-07-15T16:48:15.096+05:30 INFO 13092 --- [Curtain Model] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in
Hibernate: select c1_0.id,c1_0.brand,c1_0.color,c1_0.material,c1_0.price from curtain c1_0 where c1_0.price=?
Hibernate: select c1_0.id,c1_0.brand,c1_0.color,c1_0.material,c1_0.price from curtain c1_0 where c1_0.brand=?
Hibernate: select c1_0.id,c1_0.brand,c1_0.color,c1_0.material,c1_0.price from curtain c1_0 where c1_0.price=?
Hibernate: select c1_0.id,c1_0.brand,c1_0.color,c1_0.material,c1_0.price from curtain c1_0 where c1_0.price=?
```

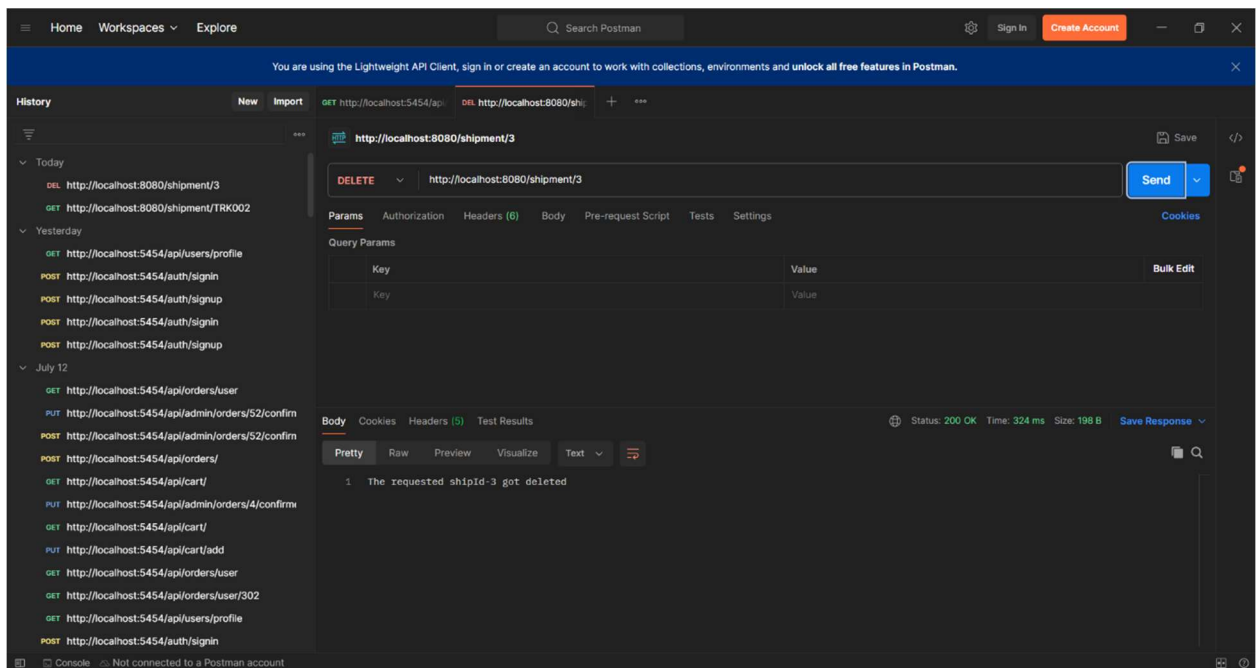
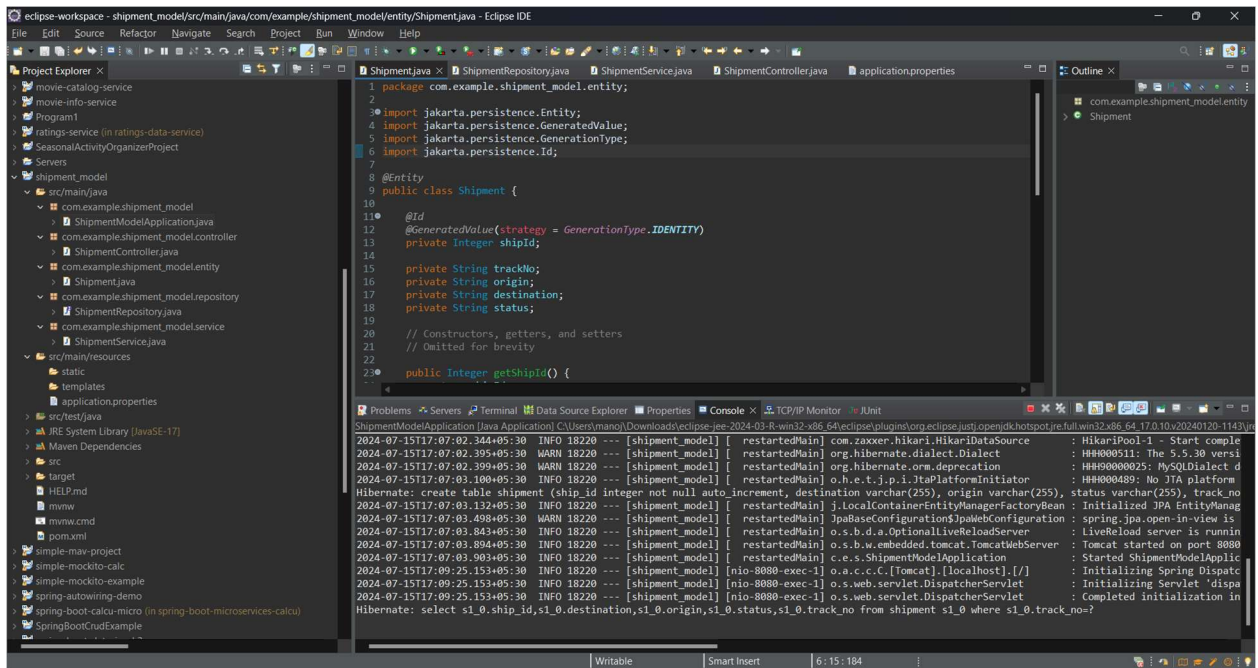
```
mysql> use curtainindb;
Database changed
mysql> show tables;
+-----+
| Tables_in_curtainindb |
+-----+
| curtain                |
+-----+
1 row in set (0.00 sec)

mysql> select * from curtain;
+----+-----+-----+-----+-----+
| id | brand | color | material | price |
+----+-----+-----+-----+-----+
| 1  | BrandA | Red   | Cotton   | 150   |
| 2  | BrandB | Blue  | Silk     | 200   |
| 3  | BrandA | Green | Polyester | 100   |
+----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql>
```

Outputs of Spring JPA





```
MySQL 5.5 Command Line Cli x + v
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO shipment (ship_id, track_no, origin, destination, status) VALUES (2, 'TRK002', 'London', 'Paris', 'Pending');
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO shipment (ship_id, track_no, origin, destination, status) VALUES (3, 'TRK003', 'Berlin', 'Madrid', 'Delivered');
Query OK, 1 row affected (0.00 sec)

mysql> select * from shipment;
+-----+-----+-----+-----+-----+
| ship_id | destination | origin | status | track_no |
+-----+-----+-----+-----+-----+
| 1 | Los Angeles | New York | In Transit | TRK001 |
| 2 | Paris | London | Pending | TRK002 |
| 3 | Madrid | Berlin | Delivered | TRK003 |
+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from shipment;
+-----+-----+-----+-----+-----+
| ship_id | destination | origin | status | track_no |
+-----+-----+-----+-----+-----+
| 1 | Los Angeles | New York | In Transit | TRK001 |
| 2 | Paris | London | Pending | TRK002 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

mysql> |
```

Outputs of spring Boot Full Stack