

## ACTIVITY PERTEMUAN 6

**NAMA** : Mohamad Afif Juniawan

**NPM** : 50421831

**KELAS** : 4IA13

**MATERI** : Implementasi Aspect Oriented Programming(AOP) dan Dependency Injection

**MATA PRAKTIKUM** : RPL2

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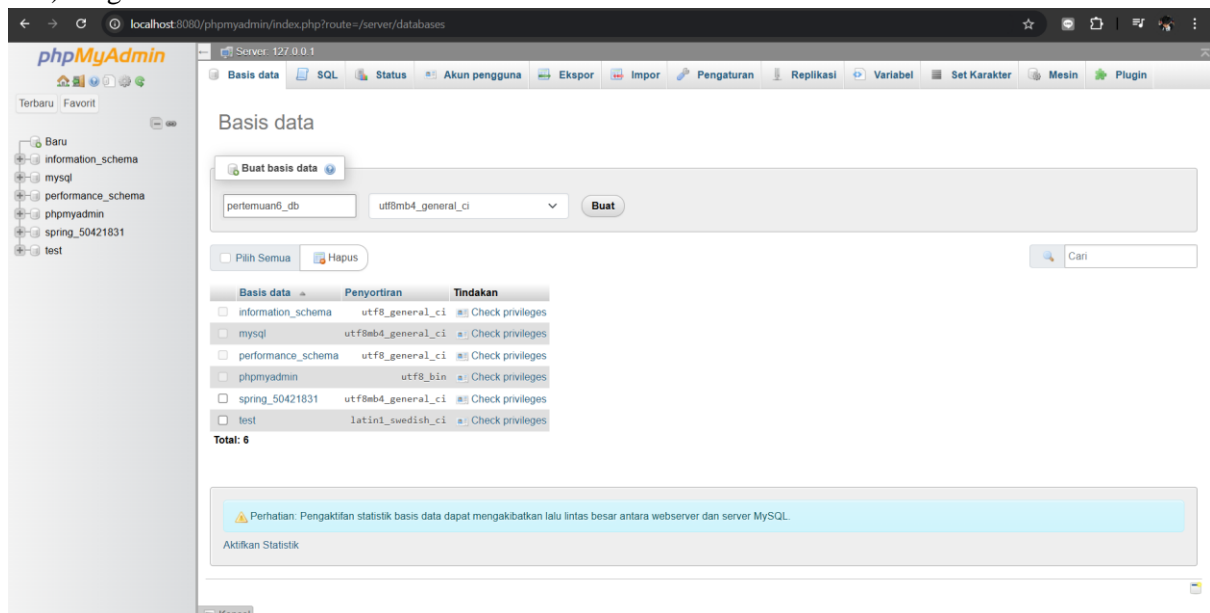
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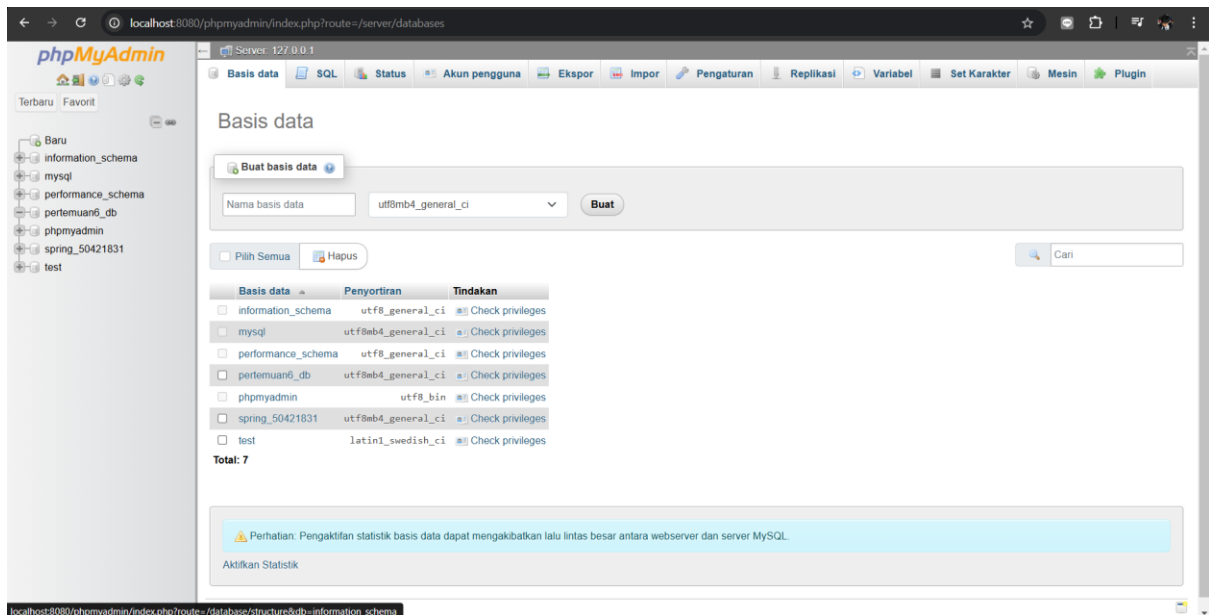
(Screenshoot langkah-langkah sesuai video pembelajaran dan jelaskan dengan ringkas)

### Activity

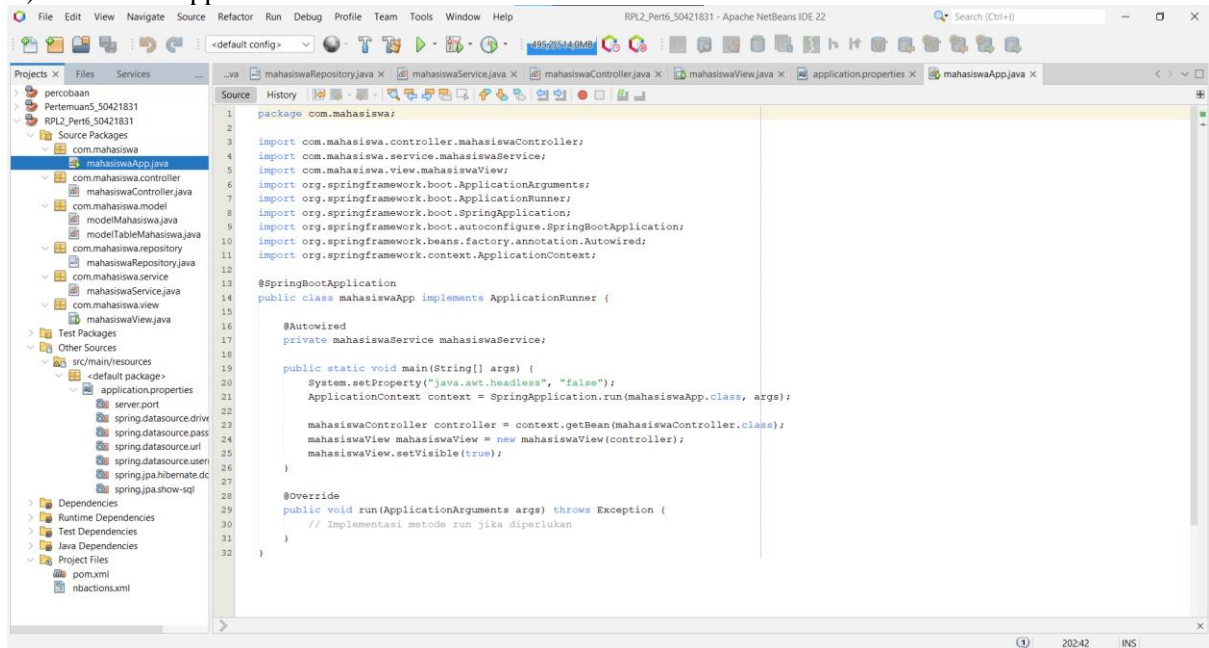


#### 1.A)Langkah Pertama buat Database

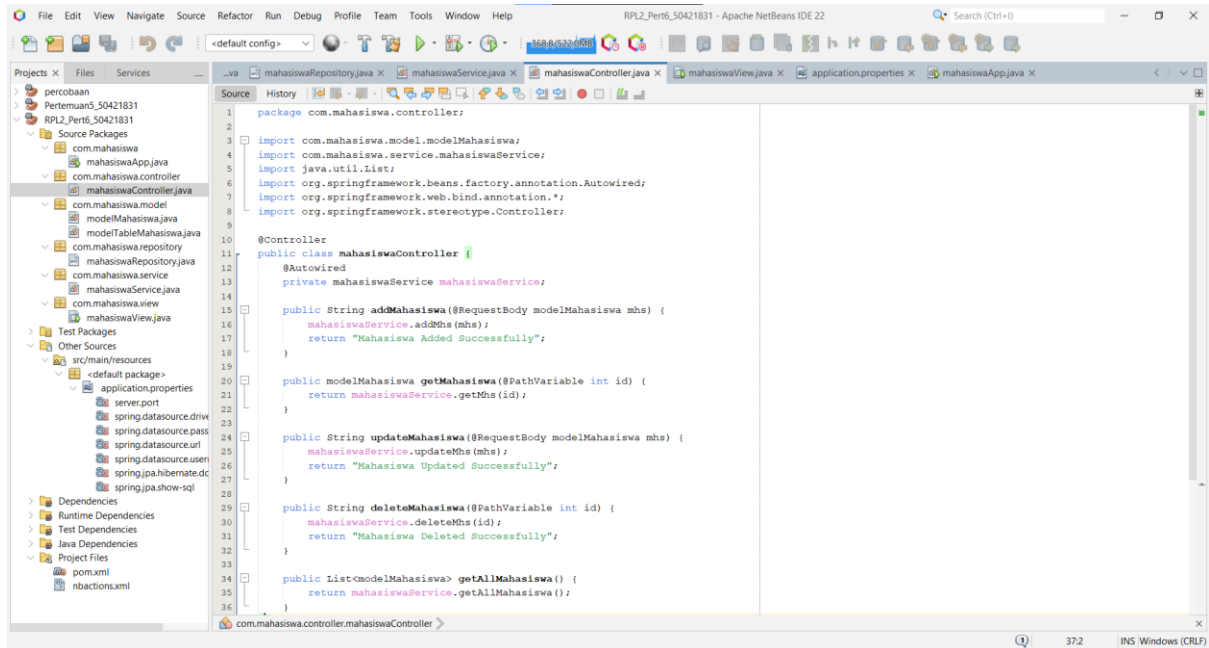




## B)MahasiswaApp.JAVA

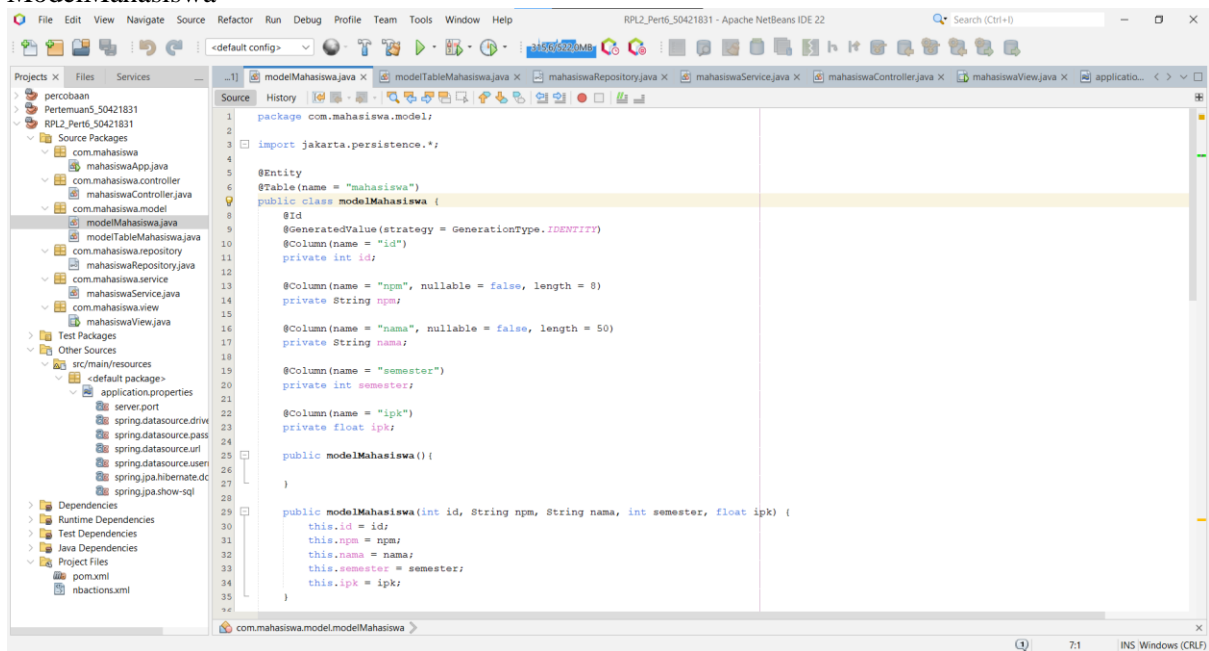


## MahasiswaController



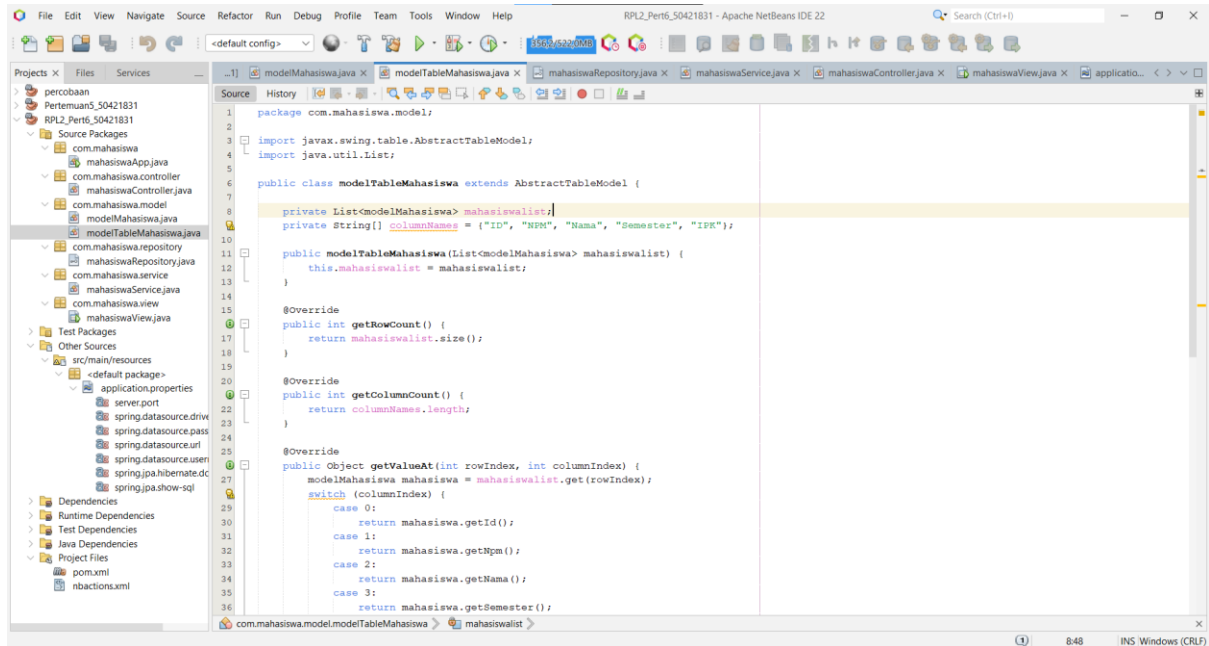
```
1 package com.mahasiswa.controller;
2
3 import com.mahasiswa.model.modelMahasiswa;
4 import com.mahasiswa.service.mahasiswaService;
5 import java.util.List;
6 import org.springframework.beans.factory.annotation.Autowired;
7 import org.springframework.web.bind.annotation.*;
8 import org.springframework.stereotype.Controller;
9
10 @Controller
11 public class mahasiswaController {
12     @Autowired
13     private mahasiswaService mahasiswaService;
14
15     public String addMahasiswa(@RequestBody modelMahasiswa mhs) {
16         mahasiswaService.addMhs(mhs);
17         return "Mahasiswa Added Successfully";
18     }
19
20     public modelMahasiswa getMahasiswa(@PathVariable int id) {
21         return mahasiswaService.getMhs(id);
22     }
23
24     public String updateMahasiswa(@RequestBody modelMahasiswa mhs) {
25         mahasiswaService.updateMhs(mhs);
26         return "Mahasiswa Updated Successfully";
27     }
28
29     public String deleteMahasiswa(@PathVariable int id) {
30         mahasiswaService.deleteMhs(id);
31         return "Mahasiswa Deleted Successfully";
32     }
33
34     public List<modelMahasiswa> getAllMahasiswa() {
35         return mahasiswaService.getAllMahasiswa();
36     }
37 }
```

## ModelMahasiswa

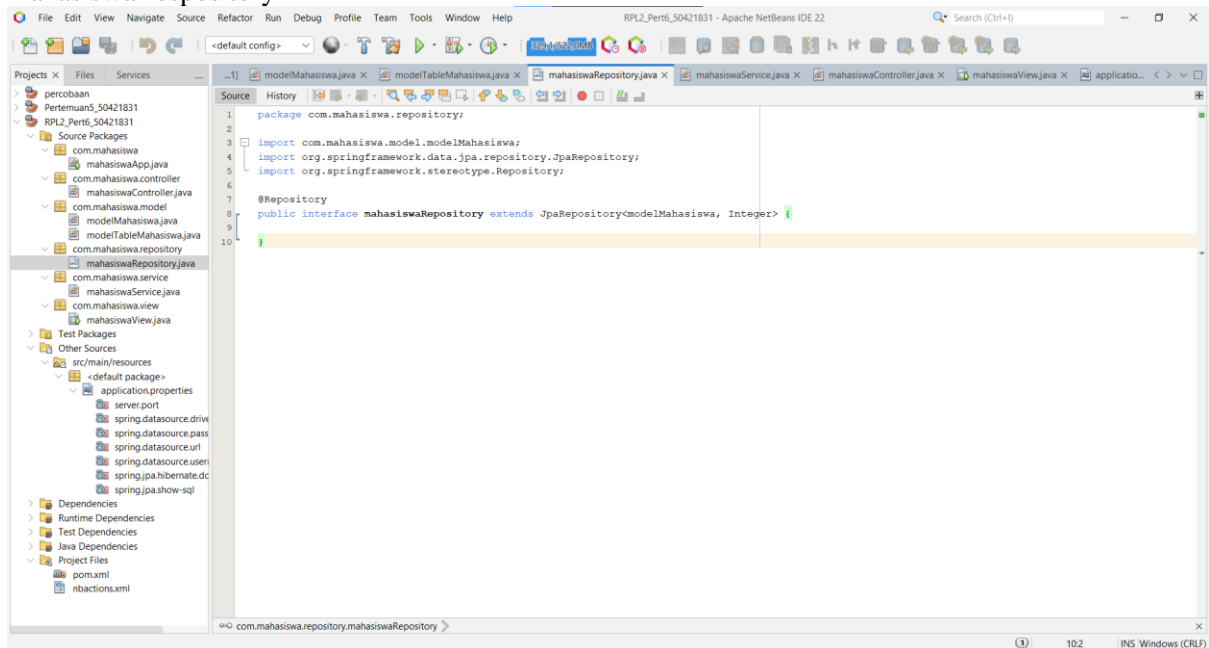


```
1 package com.mahasiswa.model;
2
3 import jakarta.persistence.*;
4
5 @Entity
6 @Table(name = "mahasiswa")
7 public class modelMahasiswa {
8     @Id
9     @GeneratedValue(strategy = GenerationType.IDENTITY)
10     @Column(name = "id")
11     private int id;
12
13     @Column(name = "npm", nullable = false, length = 8)
14     private String npm;
15
16     @Column(name = "nama", nullable = false, length = 50)
17     private String nama;
18
19     @Column(name = "semester")
20     private int semester;
21
22     @Column(name = "ipk")
23     private float ipk;
24
25     public modelMahasiswa() {
26     }
27
28     public modelMahasiswa(int id, String npm, String nama, int semester, float ipk) {
29         this.id = id;
30         this.npm = npm;
31         this.nama = nama;
32         this.semester = semester;
33         this.ipk = ipk;
34     }
35 }
```

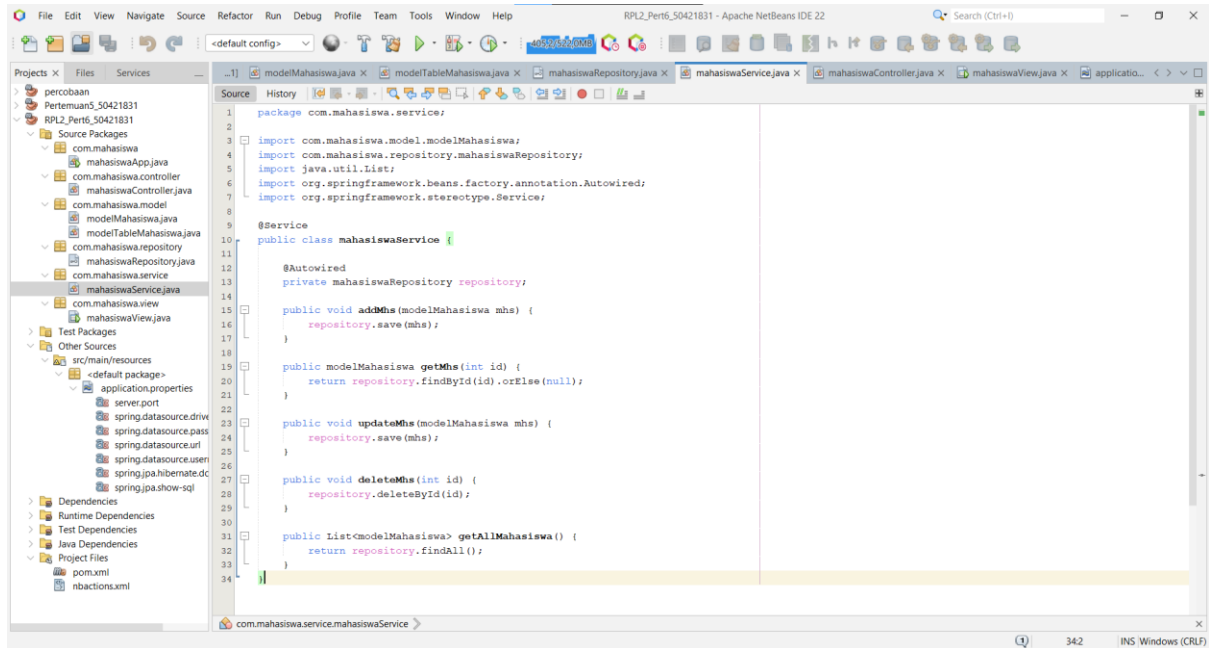
## ModelTableMahasiswa



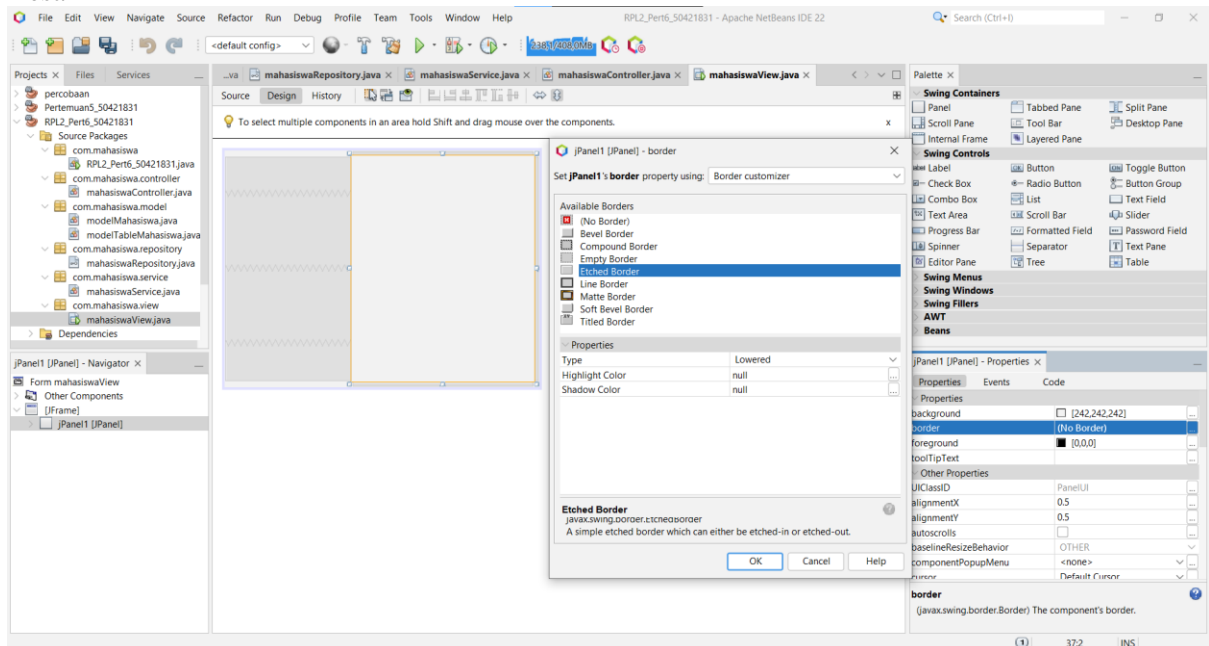
## mahasiswaRepository



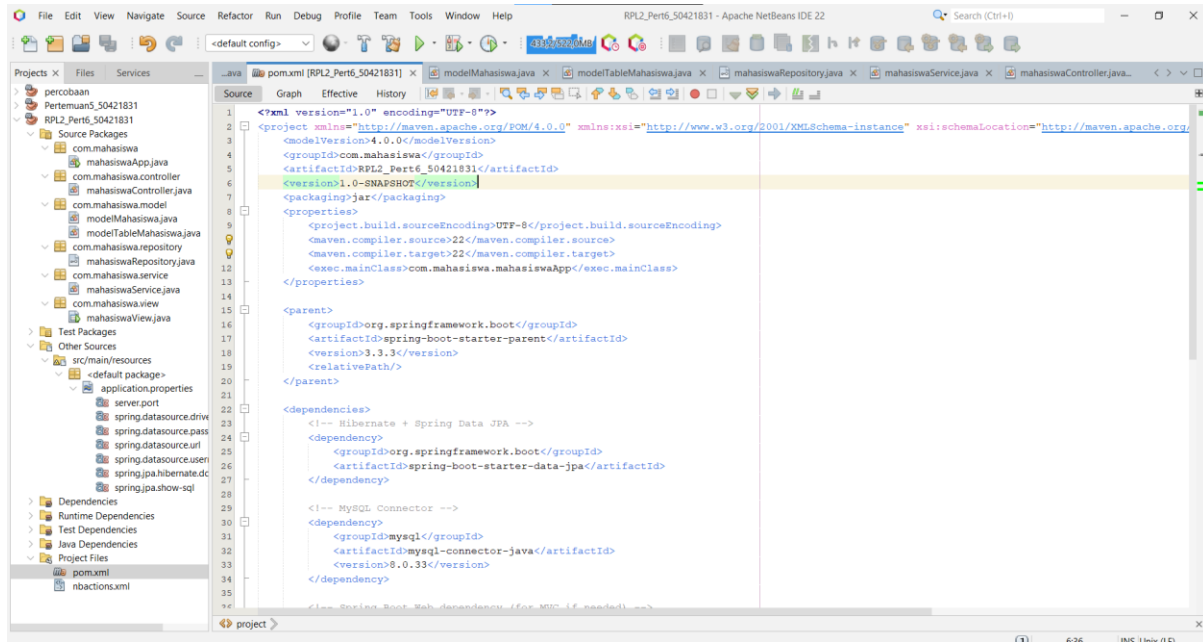
## mahasiswaService



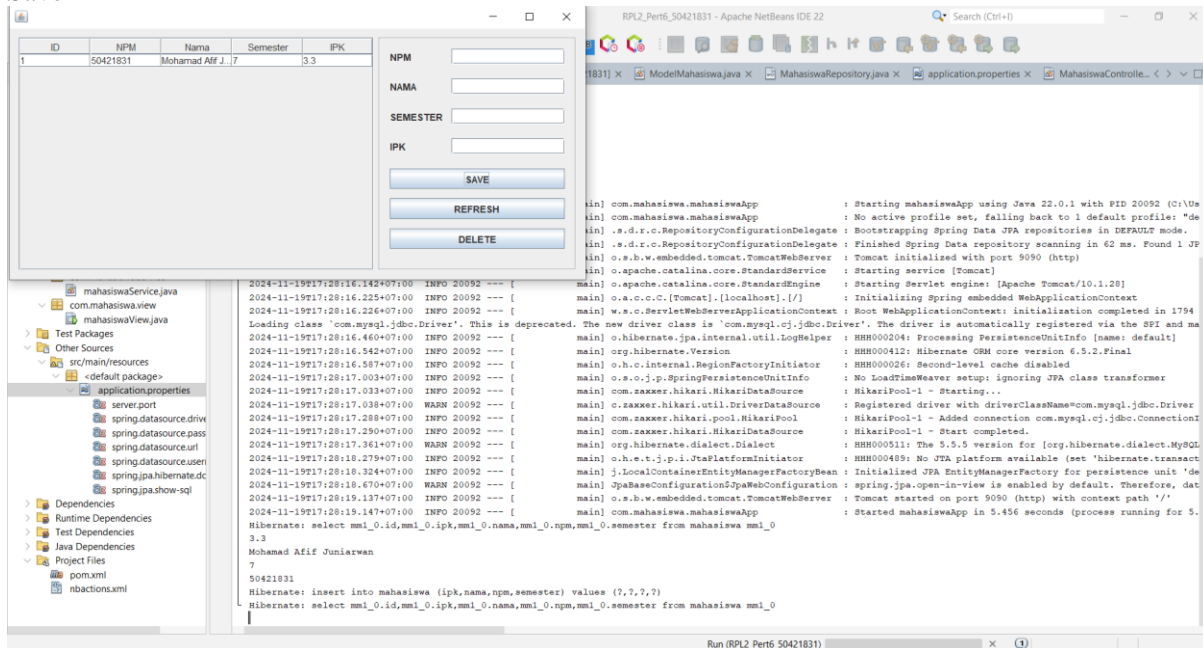
## Desain



## Pom.xml



## Output Save





Run (RPL2\_Pert6\_50421831) - Apache NetBeans IDE 22

ID	NPM	Nama	Semester	IPK
1	50421831	Mohamad Afif J	7	3.3
2	51421009	Kemal Palevi	7	3.5

NPM:   
NAMA:   
SEMESTER:   
IPK:   
SAVE  
REFRESH  
DELETE

Run (RPL2\_Pert6\_50421831)

## Delete

Run (RPL2\_Pert6\_50421831) - Apache NetBeans IDE 22

ID	NPM	Nama	Semester	IPK
1	50421831	Mohamad Afif J	7	3.3
2	51421009	Kemal Palevi	7	3.5

NPM:   
NAMA:   
SEMESTER:   
IPK:   
SAVE  
REFRESH  
DELETE

Success  
Data Berhasil Dihapus  
OK

Run (RPL2\_Pert6\_50421831)

—□×

ID	NPM	Nama	Semester	IPK
1	50421831	Mohamad Afif J...	7	3.3

NPM

NAMA

SEMESTER

IPK

SAVE

REFRESH

DELETE