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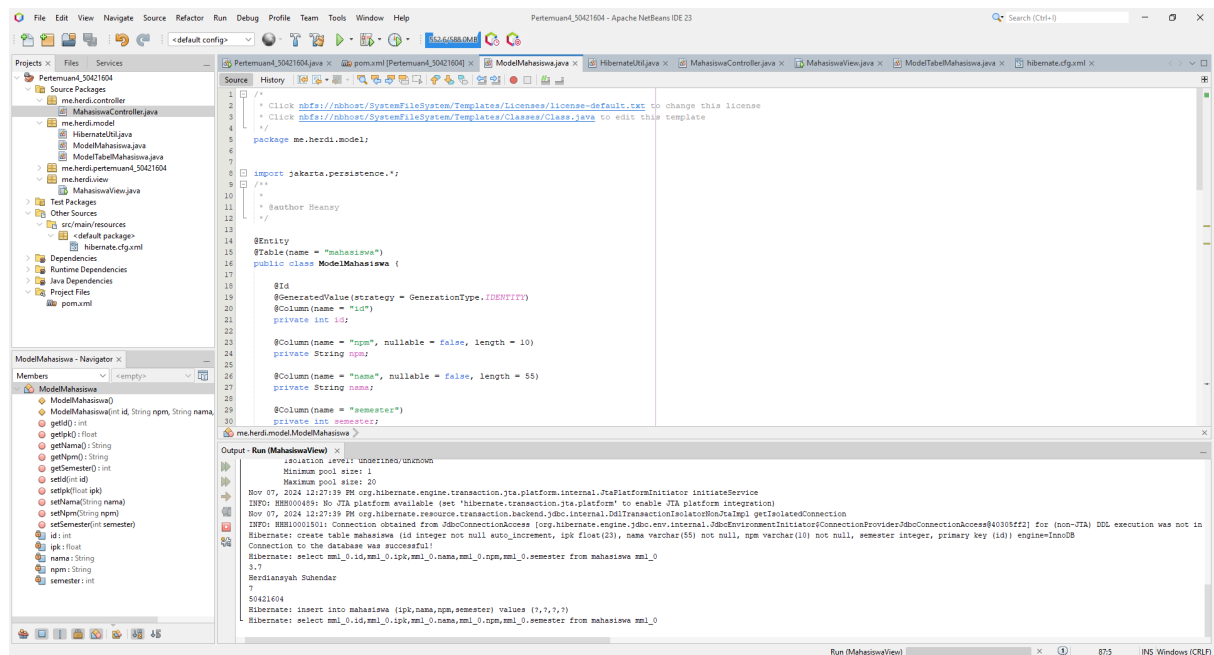
Activity M4 Praktikum Rekayasa Perangkat Lunak 2

1. Screenshot kode dan output

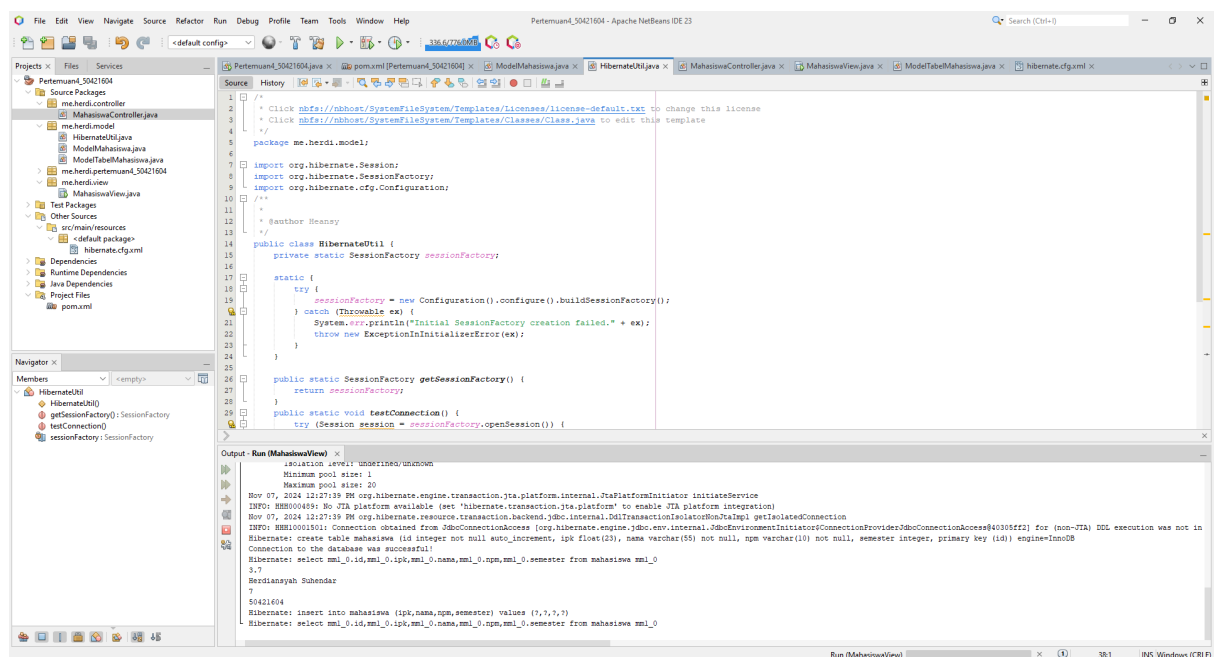
Jawab :

Source code:

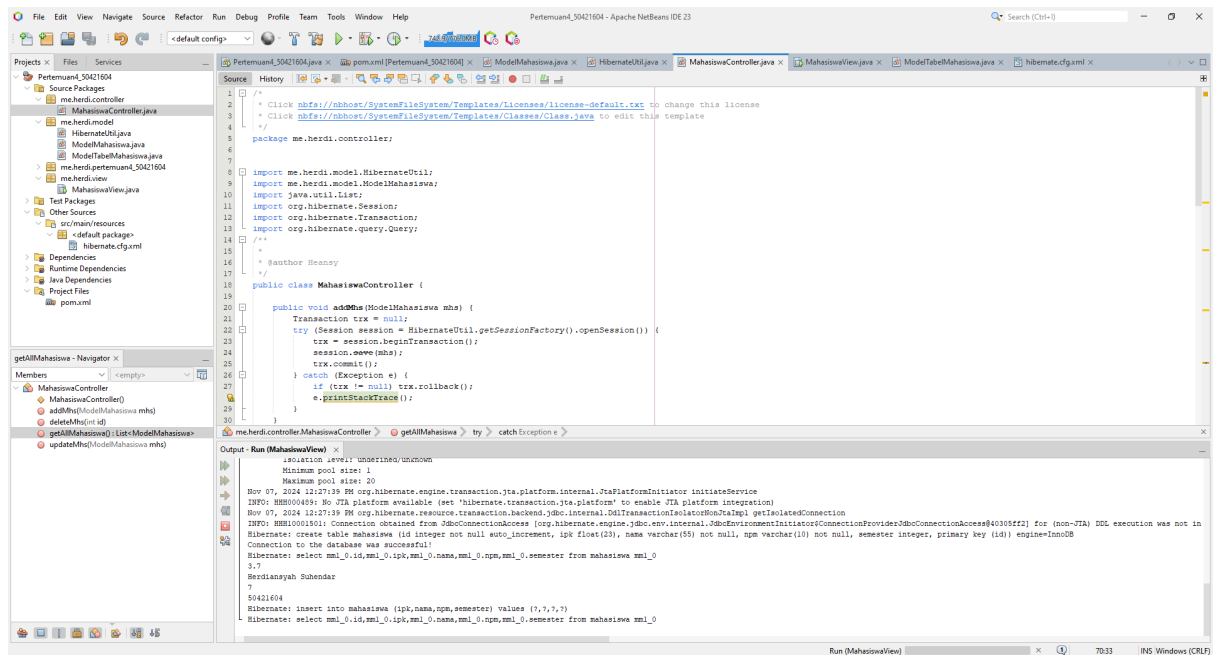
ModelMahasiswa.java



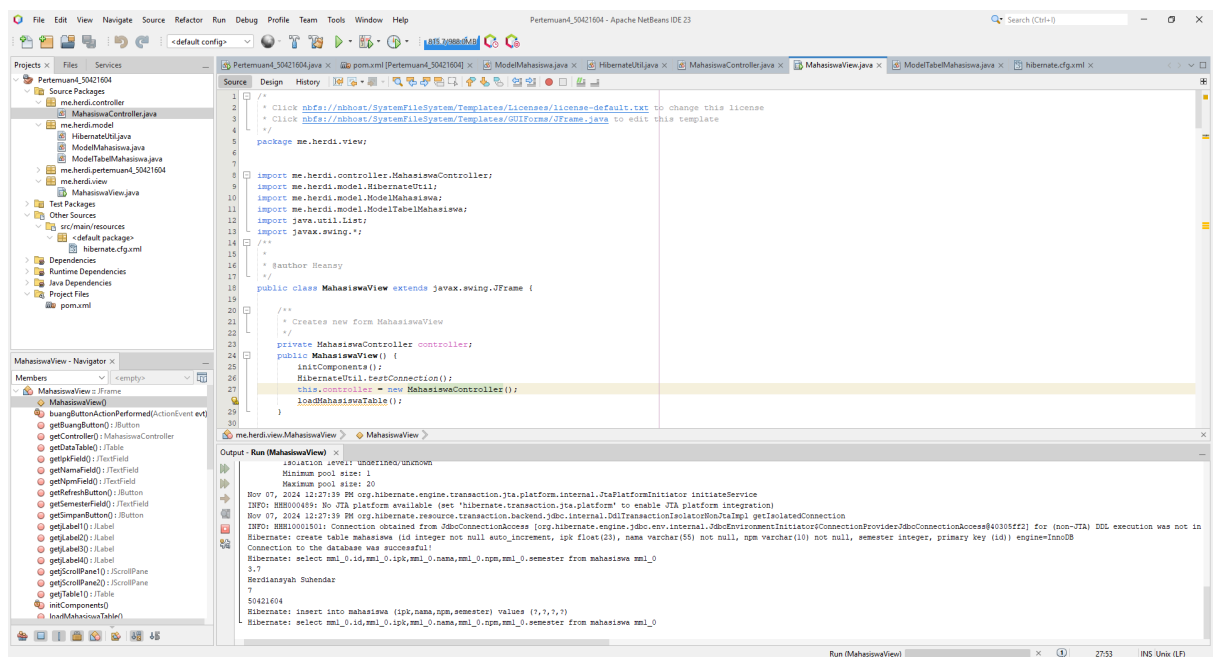
HibernateUtil.java



MahasiswaController.java



MahasiswaView.java



The screenshot shows an IDE with the following components:

- Top Bar:** File, Edit, View, Source, Refactor, Run, Debug, Profile, Tools, Window, Help.
- Project Explorer (Left):**
 - peternuan_30421604
 - Source Packages
 - me.herdi.controller
 - MahasiswaController.java
 - me.herdi.model
 - HibernateUtil.java
 - ModelMahasiswa.java
 - ModelTabelMahasiswa.java
 - me.herdi.view
 - peternuan_30421604
 - me.herdi.view
 - MahasiswaView.java
 - Test Packages
 - src/main/resources
 - hibernate.cfg.xml
 - Dependencies
 - Runtime Dependencies
 - Java Dependencies
 - Project Files
 - pom.xml
 - Navigator (Bottom Left):**
 - Members
 - ModelTabelMahasiswa: AbstractTableModel
 - ModelTabelMahasiswa (List<ModelMahasiswa>):
 - getColumnCount(): int
 - getColumnNames(): String[] Abstract
 - getRowCount(): int
 - getValueAt(int rowindex, int columindex): Object
 - isCellEditable(int rowindex, int columindex): boolean
 - setMahasiswa(List<ModelMahasiswa> mahasiswa): void
 - columnNames: String[]
 - mahasiswa: List<ModelMahasiswa>
 - Source Editor (Center):**

```

1  /*
2  * Click nbfs://nbfs/System/FileSystem/Template/License/license-default.txt to change this license
3  * Click nbfs://nbfs/System/FileSystem/Template/Class/class.java to edit this template
4  */
5
6  package me.herdi.model;
7
8  import javax.swing.table.AbstractTableModel;
9  import java.util.List;
10
11  /**
12   *
13   * @author Herdy
14   */
15  public class ModelTabelMahasiswa extends AbstractTableModel {
16      private List<ModelMahasiswa> mahasiswaList;
17      private String[] columnNames = {"ID", "NPM", "Nama", "Semester", "IPK"};
18
19      public ModelTabelMahasiswa(List<ModelMahasiswa> mahasiswaList) {
20          this.mahasiswaList = mahasiswaList;
21      }
22
23      @Override
24      public int getRowCount() {
25          return mahasiswaList.size();
26      }
27
28      @Override
29      public int getColumnCount() {
30          return columnNames.length;
31      }
32  }

```
 - Output Window (Bottom):**

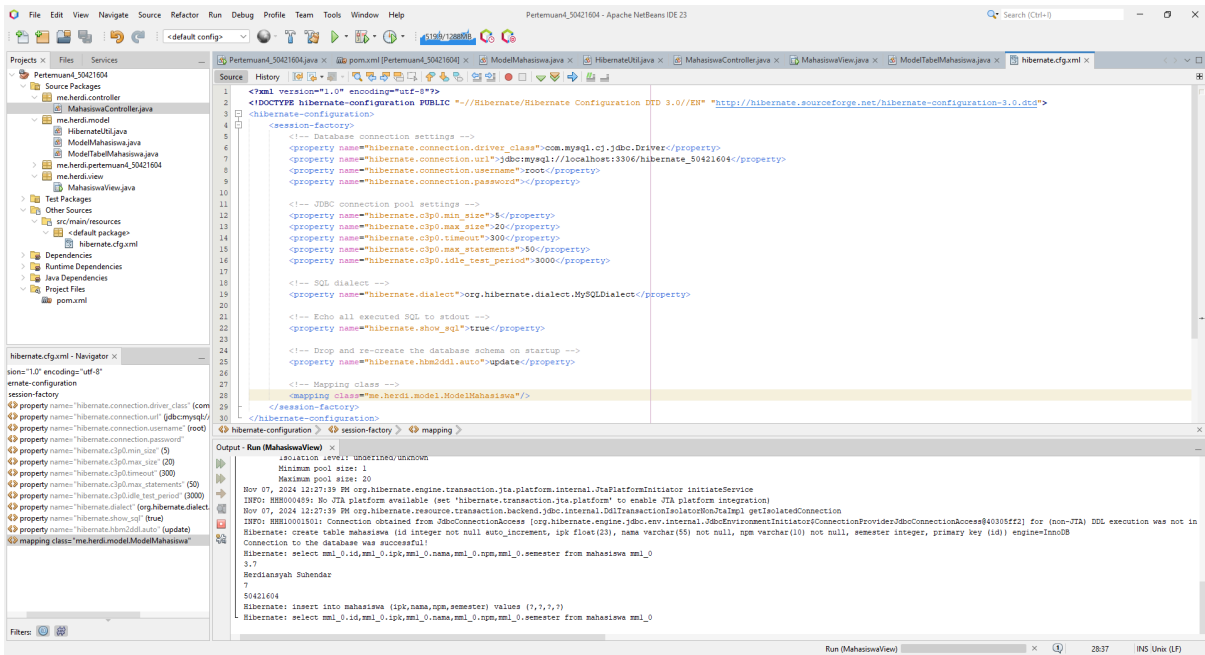
```

Run (MahasiswaView)
[Location level: Unspecified/Unknown]
Minimum pool size: 1
Maximum pool size: 20
Nov 07, 2024 12:37:39 PM org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator initiateService
INFO: HBM000049: No JTA platform found (set 'hibernate.transaction.jta.platform' to enable JTA platform integration)
Nov 07, 2024 12:37:39 PM org.hibernate.resource.transaction.backend.jdbc.internal.DdlTransactionIsolatorNoJdbc getIsolatedConnection
INFO: HBM00010501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInitiator$ConnectionProviderJdbcConnectionAccess@40309f2f] for (non-JTA) DDL execution was not in
Hibernate: create table mahasiswa (id integer not null auto_increment, ipk float(33), nama varchar(55) not null, npm varchar(16) not null, semester integer, primary key (id)) engine=InnoDB
Connection to the database was successful
Hibernate: select mmi_0.id,mmi_0.ipk,mmi_0.nama,mmi_0.npm,mmi_0.semester from mahasiswa mmi_0
HerdiAnsyah Shuhendar
7
30421604
Hibernate: insert into mahasiswa (ipk,npm,semester) values (7,7,7)
Hibernate: select mmi_0.id,mmi_0.ipk,mmi_0.nama,mmi_0.npm,mmi_0.semester from mahasiswa mmi_0

```

The screenshot shows the IntelliJ IDEA IDE with the Maven POM.xml file for 'Petertumand_50421604' open. The POM.xml file is in the 'Source' tab, showing the project configuration. The 'dependencies' section lists 'mysql' and 'hibernate-core' as dependencies. The 'output' window shows the execution of the 'Run' command, displaying the application's output, including the connection to the database and the insertion of data.

hibernate.cfg.xml



Output:

NPM

50421604

Nama

Herdiansyah Suhendar

Semester

7

IPK

3.7

Simpan

Buang

Refresh

ID	NPM	Nama	Semester	IPK
1	50421604	Herdians...	7	3.7