LAPORAN TUGAS KULIAH

PEMROGRAMAN BERORIENTASI OBYEK

22 Oktober 2023

UIN SUNAN AMPEL
S U R A B A Y A

DOSEN PEMBIMBING

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TAHUN PEMBELAJARAN 2022/2023

UNIVERSITAS ISLAM NEGERI SUNAN AMPEL SURABAYA

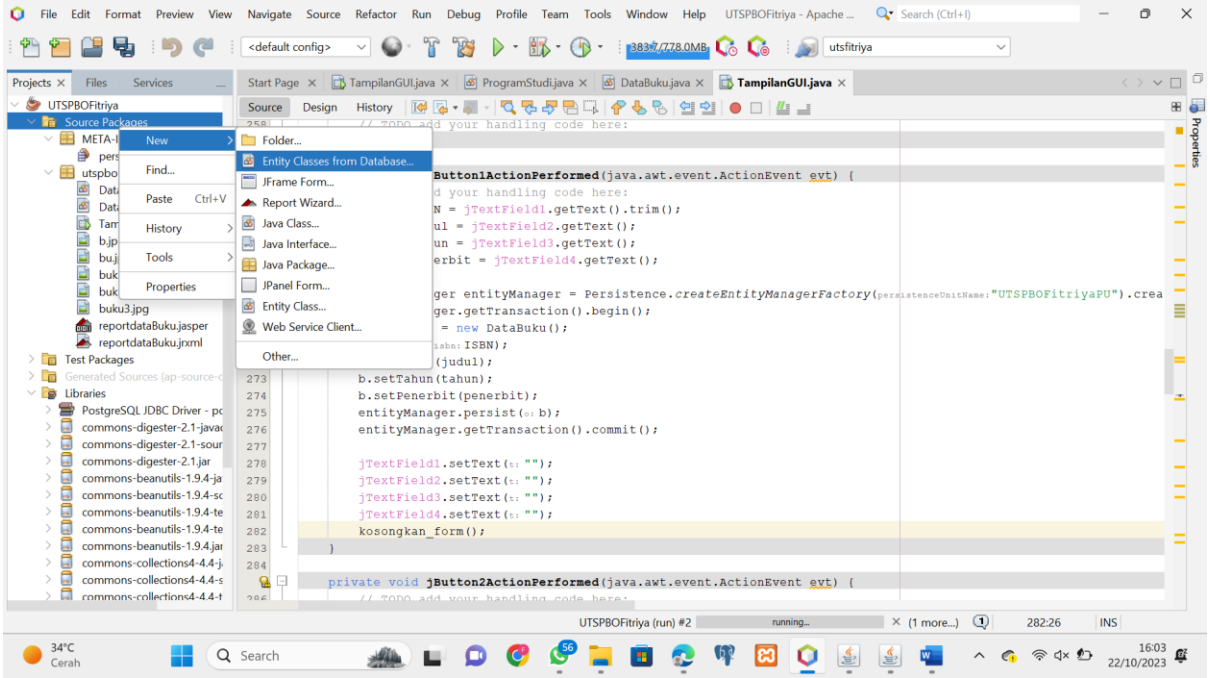
FAKULTAS SAINS DAN TEKNOLOGI

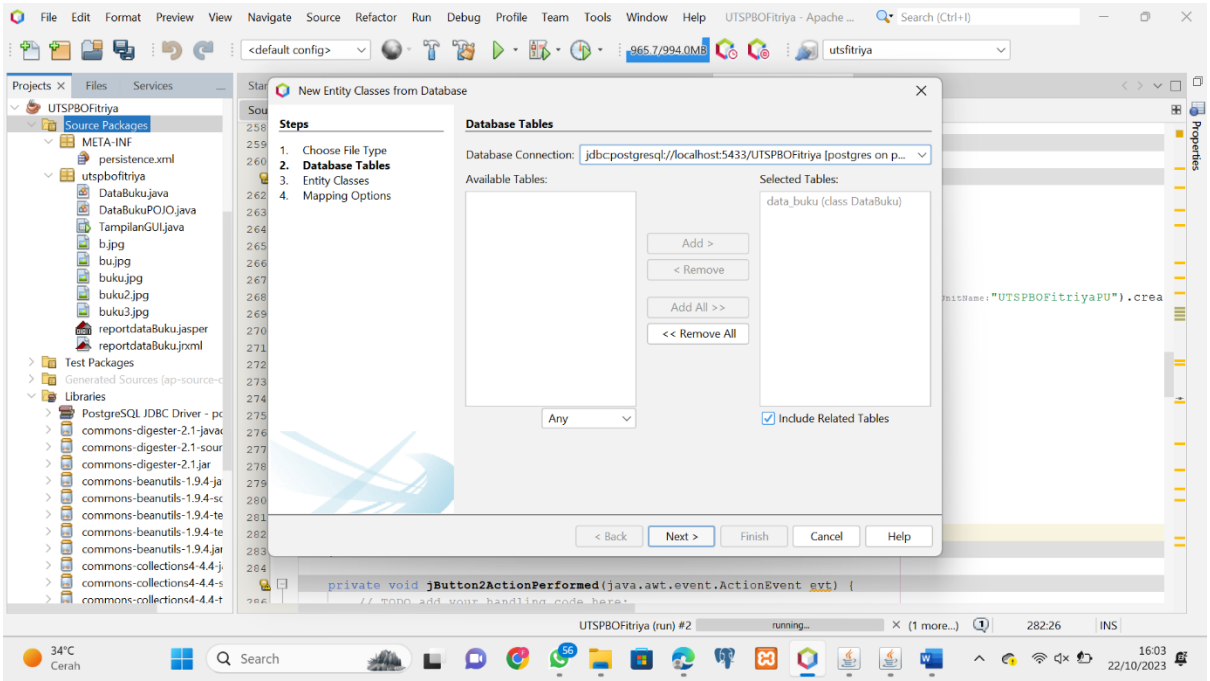
SISTEM INFORMASI

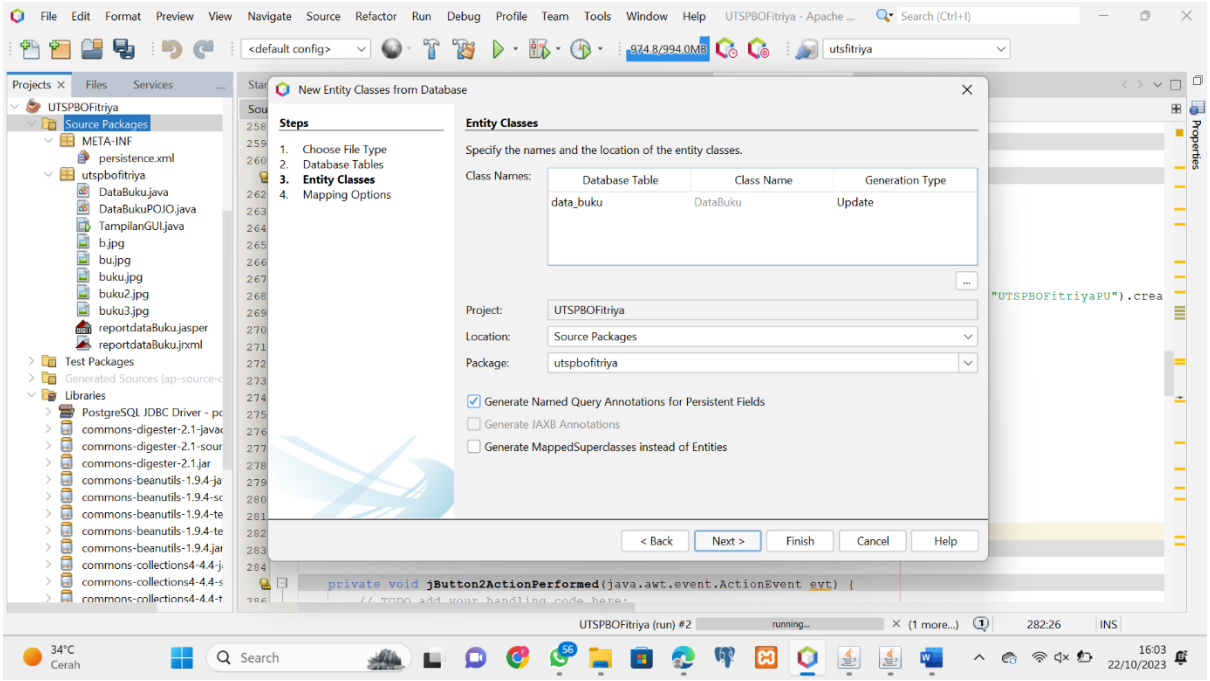
2023/2024

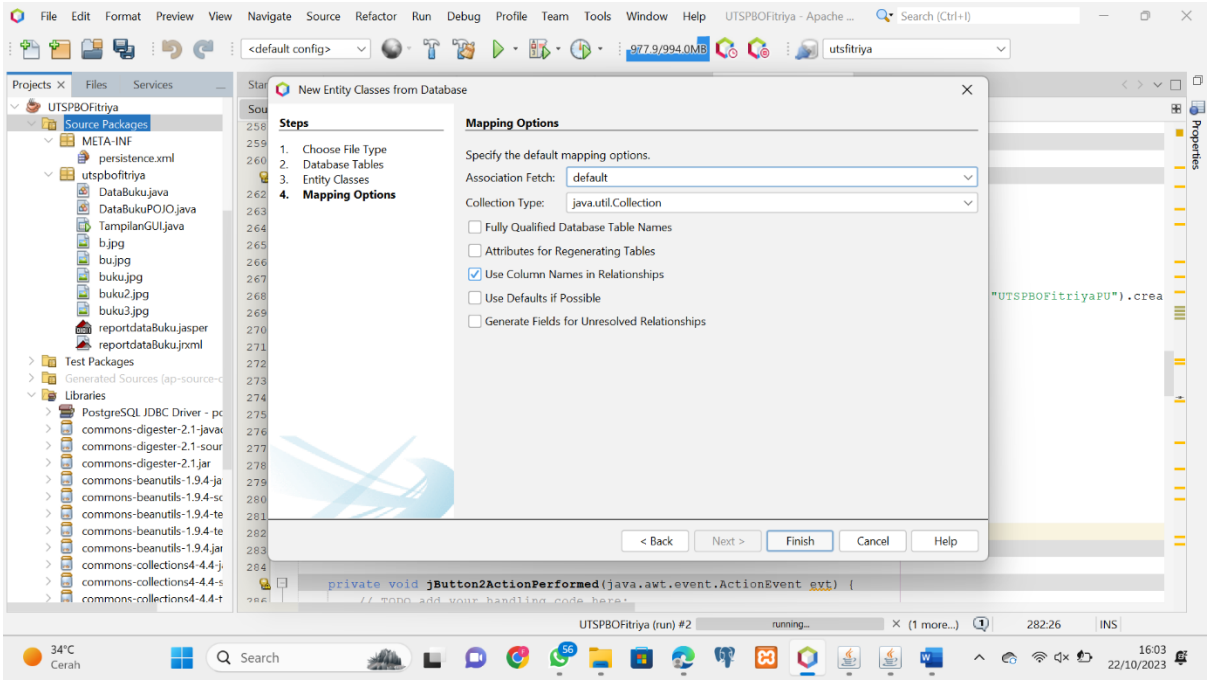
TUGAS PEMROGRAMAN BERORIENTASI OBJEK

A. Program Java Netbeans

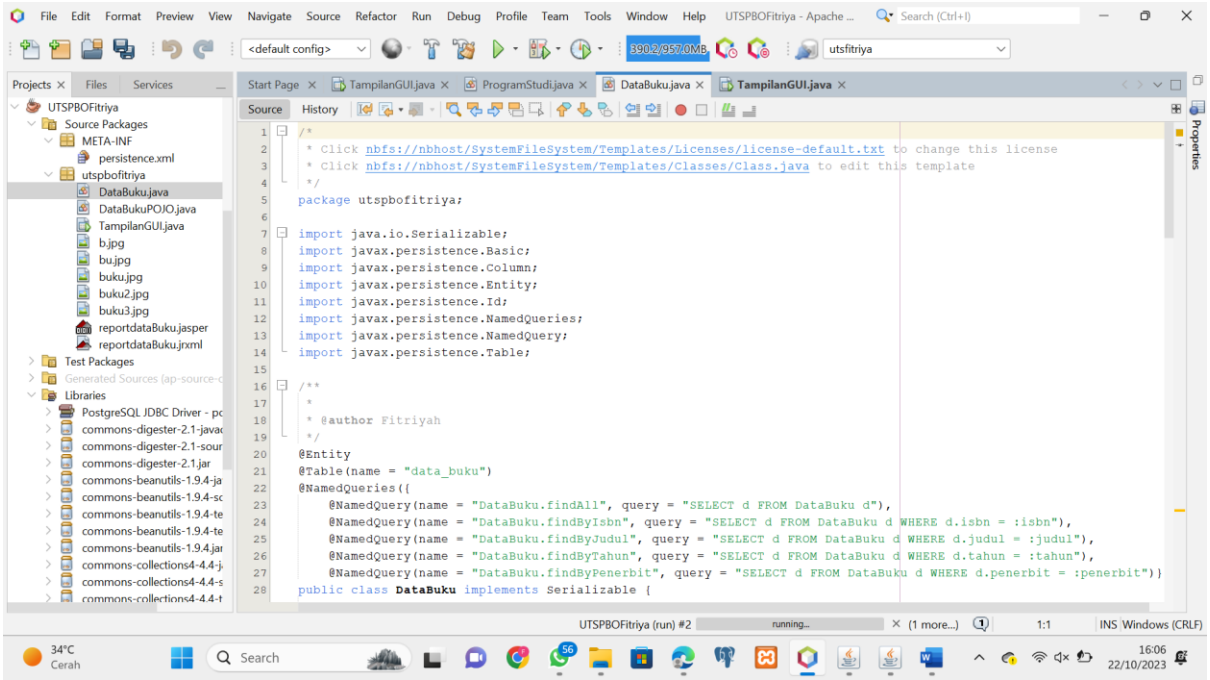




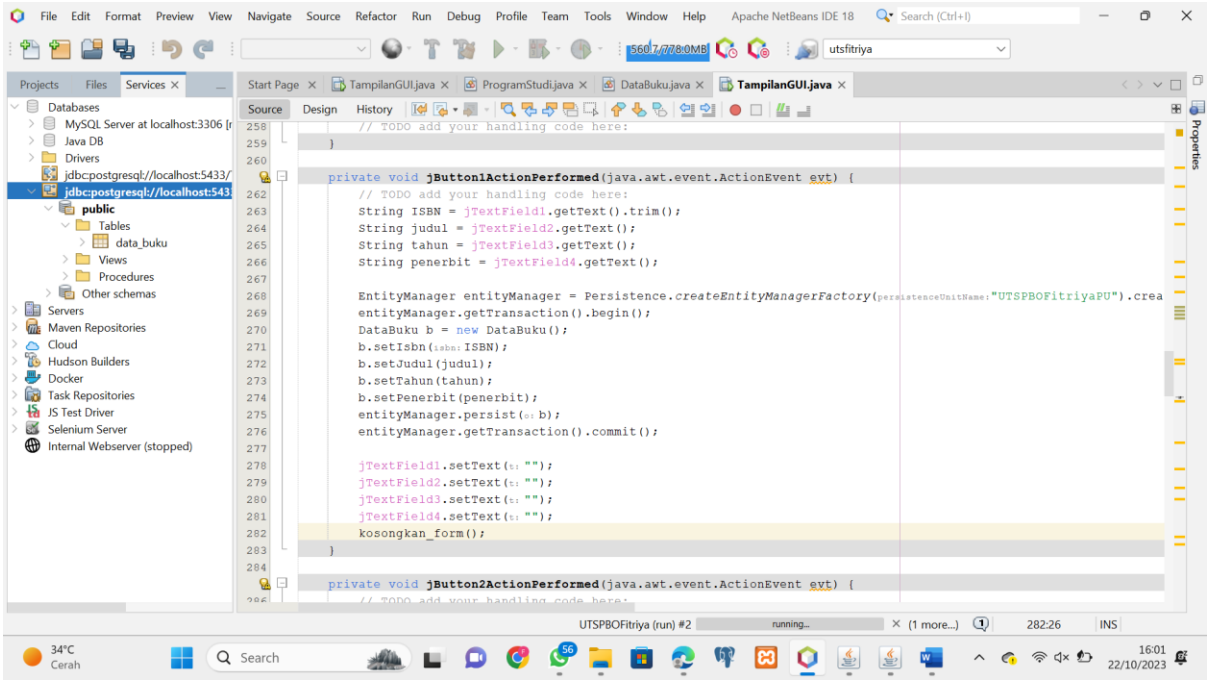


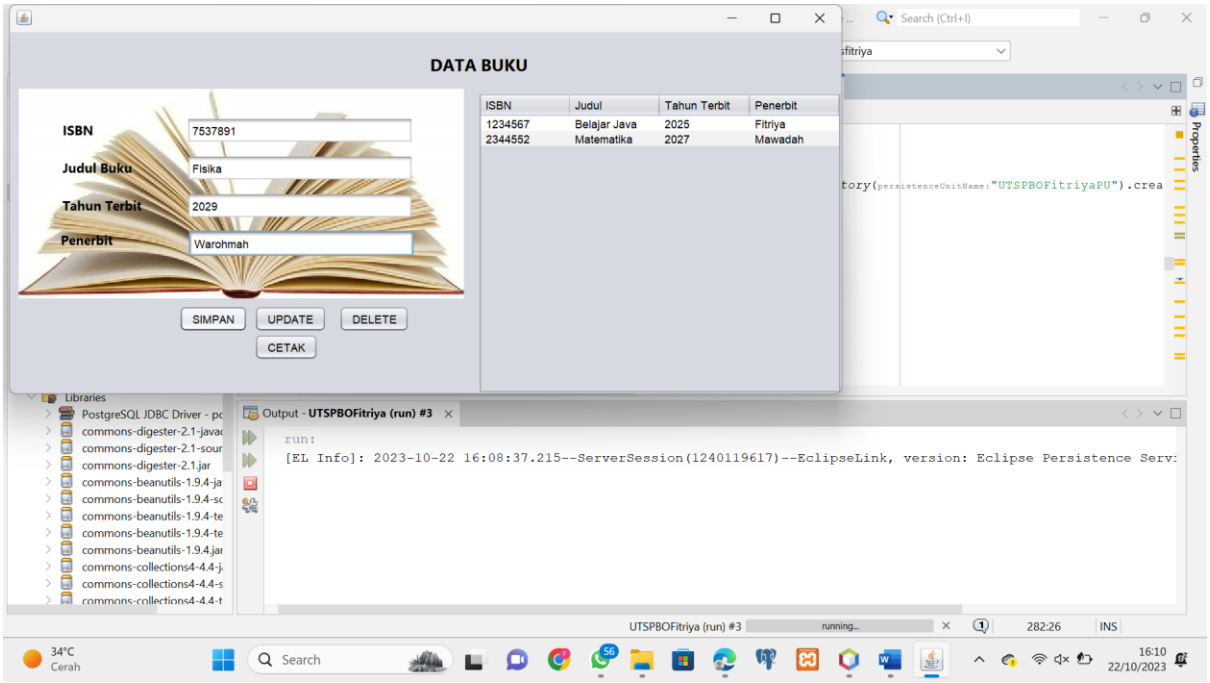


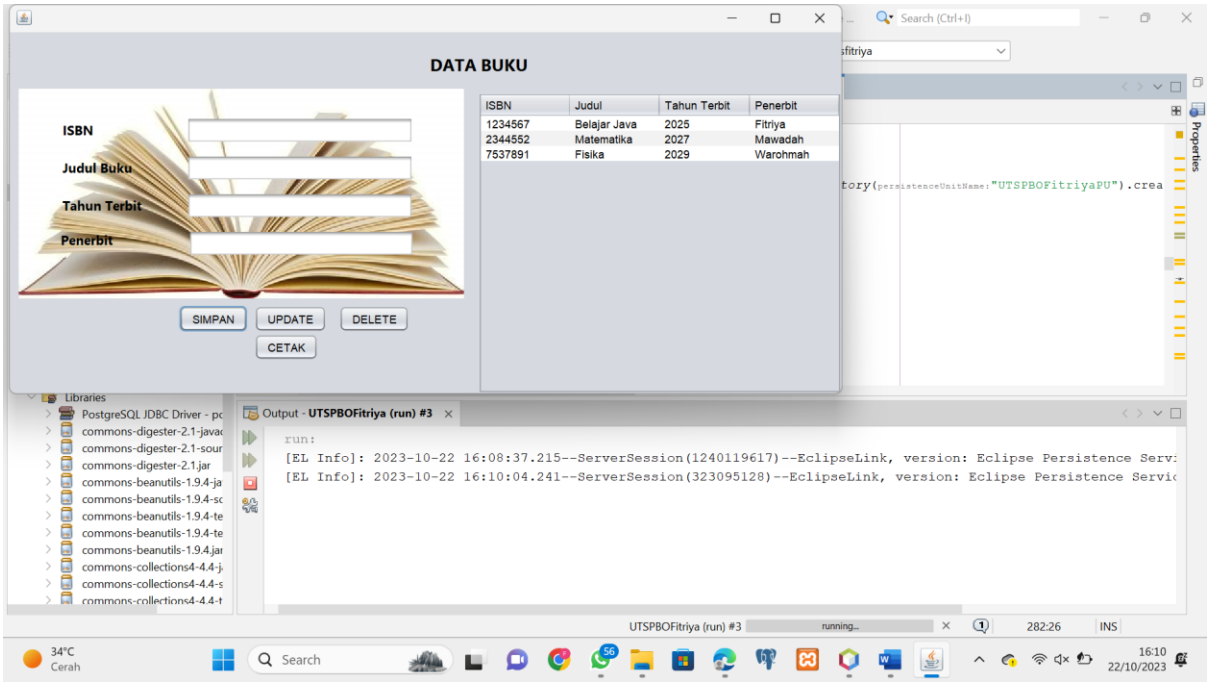
Buat Entity Classes from Database seperti gambar diatas



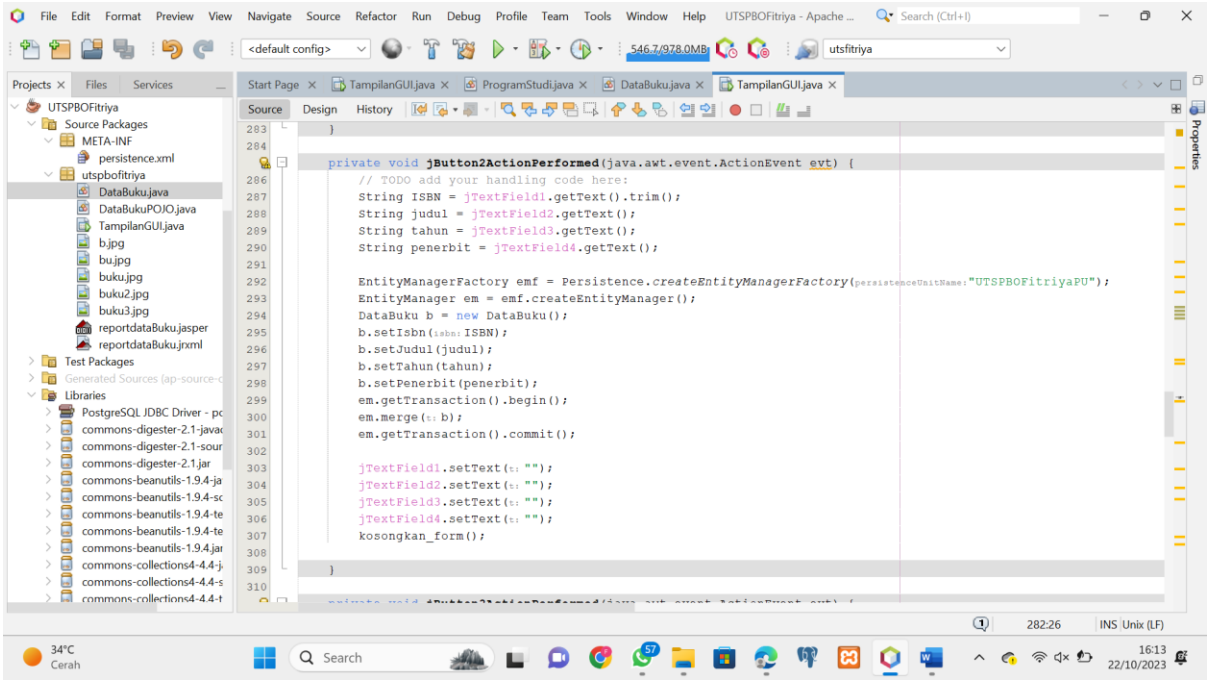
Setelah itu akan muncul presisten Data Buku secara otomatis seperti gambar diatas.

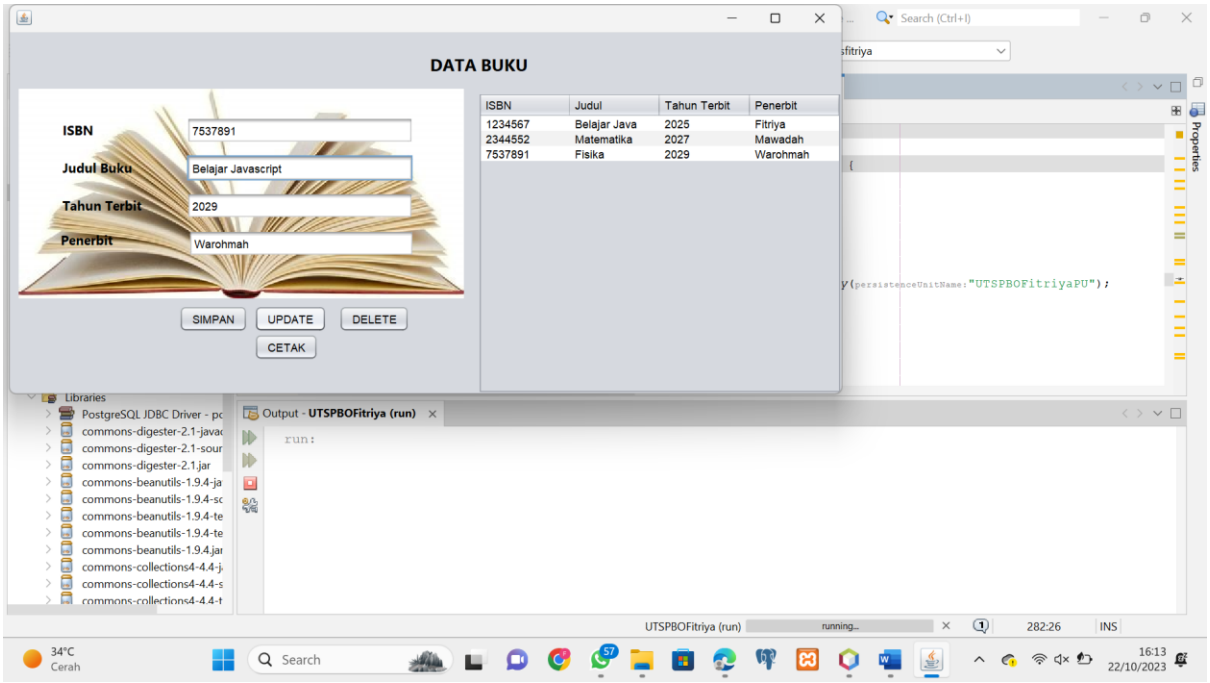


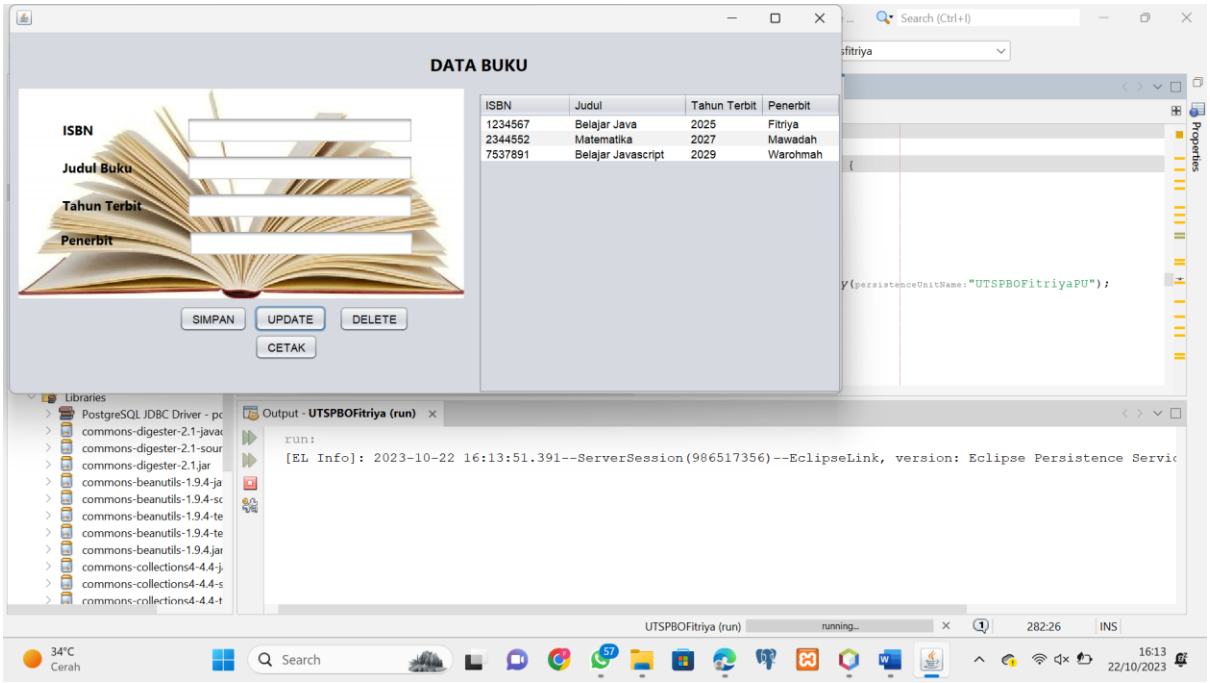




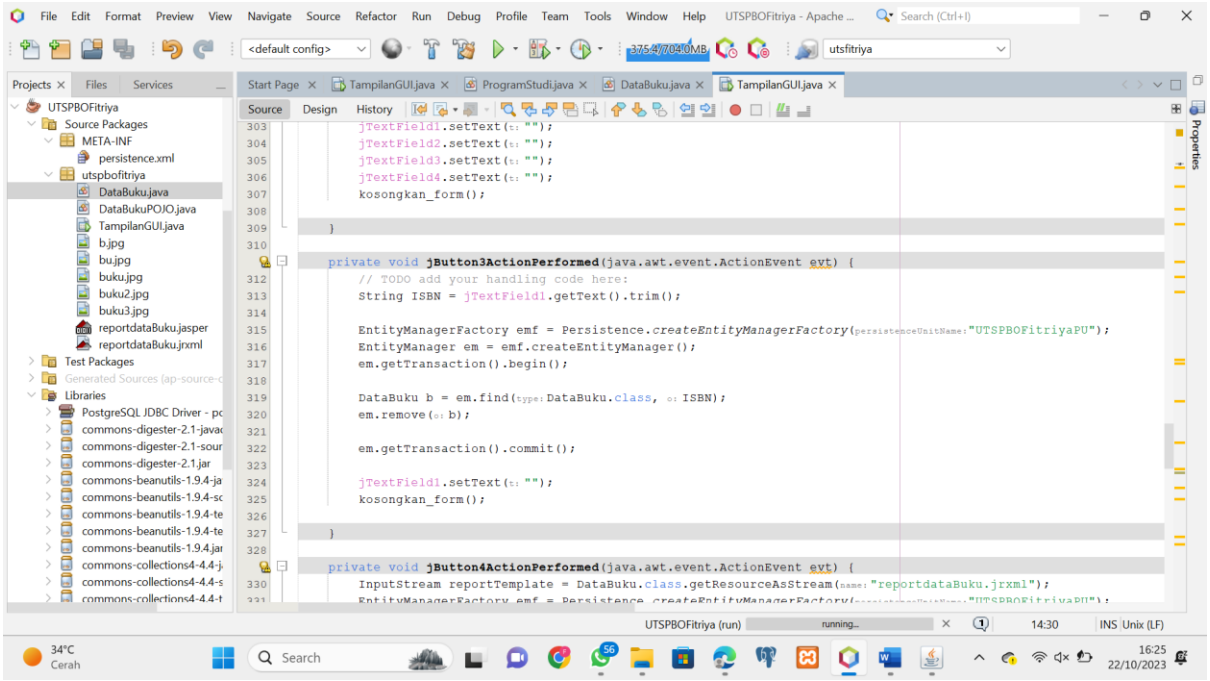
Buat source code presisten untuk button simpan. Selanjutnya saya ingin menyimpan buku dengan ISBN 7537891, Judul Buku Fisika, Tahun Terbit 2029, dan Penerbit Warohmah. Maka setelah di klik tombol simpan data akan secara otomatis tersimpan.

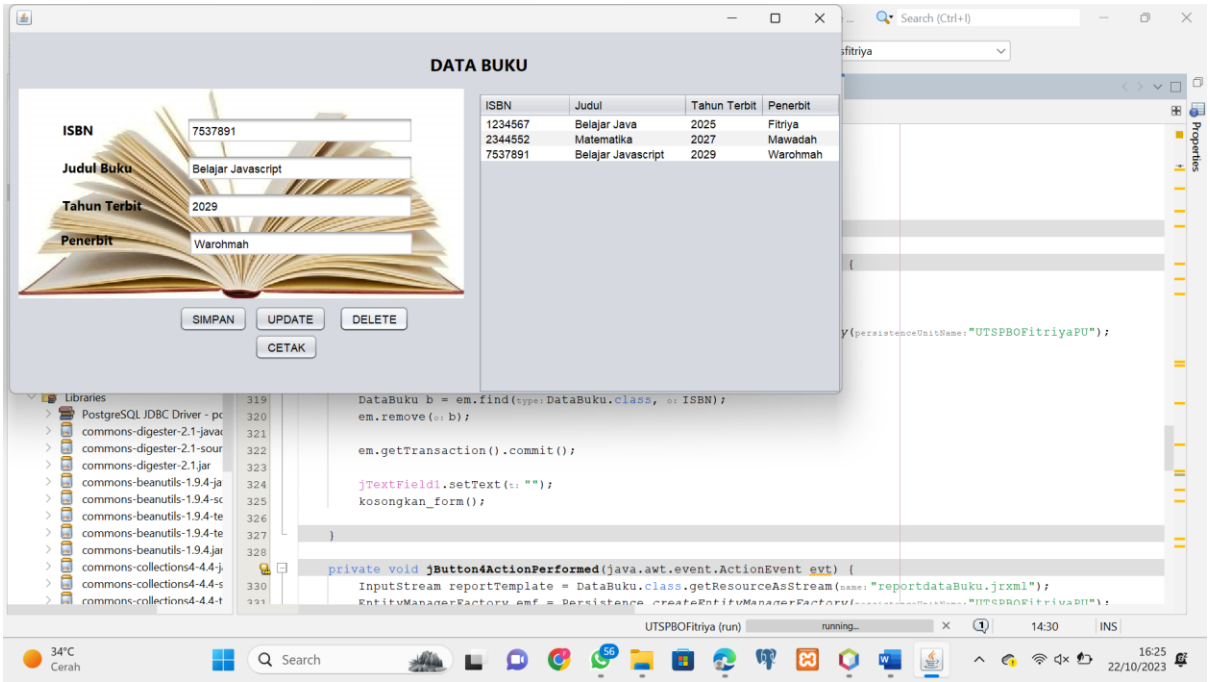

File Edit Format Preview View Navigate Source Refactor Run Debug Profile Team Tools Window Help
UTSPBOFitriya - Apache ...
Projects Files Services
Start Page TampilanGUI.java ProgramStudi.java DataBuku.java TampilanGUI.java
Source Design History
UTSPBOFitriya
Source Packages
META-INF
persistence.xml
utspbofitriya
DataBuku.java
DataBukuPOJO.java
TampilanGUI.java
b.jpg
bu.jpg
buku.jpg
buku2.jpg
buku3.jpg
reportdataBuku.jasper
reportdataBuku.jrxml
Test Packages
Libraries
PostgreSQL JDBC Driver - pc
commons-digester-2.1-javac
commons-digester-2.1-sour
commons-digester-2.1.jar
commons-beanutils-1.9.4-ja
commons-beanutils-1.9.4-sc
commons-beanutils-1.9.4-te
commons-beanutils-1.9.4-te
commons-beanutils-1.9.4.jar
commons-collections4-4.4-j
commons-collections4-4.4-s
commons-collections4-4.4-t
}
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
String ISBN = jTextField1.getText().trim();
String judul = jTextField2.getText();
String tahun = jTextField3.getText();
String penerbit = jTextField4.getText();
EntityManagerFactory emf = Persistence.createEntityManagerFactory("UTSPBOFitriyaPU");
EntityManager em = emf.createEntityManager();
DataBuku b = new DataBuku();
b.setIsbn(ISBN);
b.setJudul(judul);
b.setTahun(tahun);
b.setPenerbit(penerbit);
em.getTransaction().begin();
em.merge(b);
em.getTransaction().commit();
jTextField1.setText("");
jTextField2.setText("");
jTextField3.setText("");
jTextField4.setText("");
kosongkan_form();
}
282:26 INS Unix (LF)
34°C Cerah
Search
16:13 22/10/2023

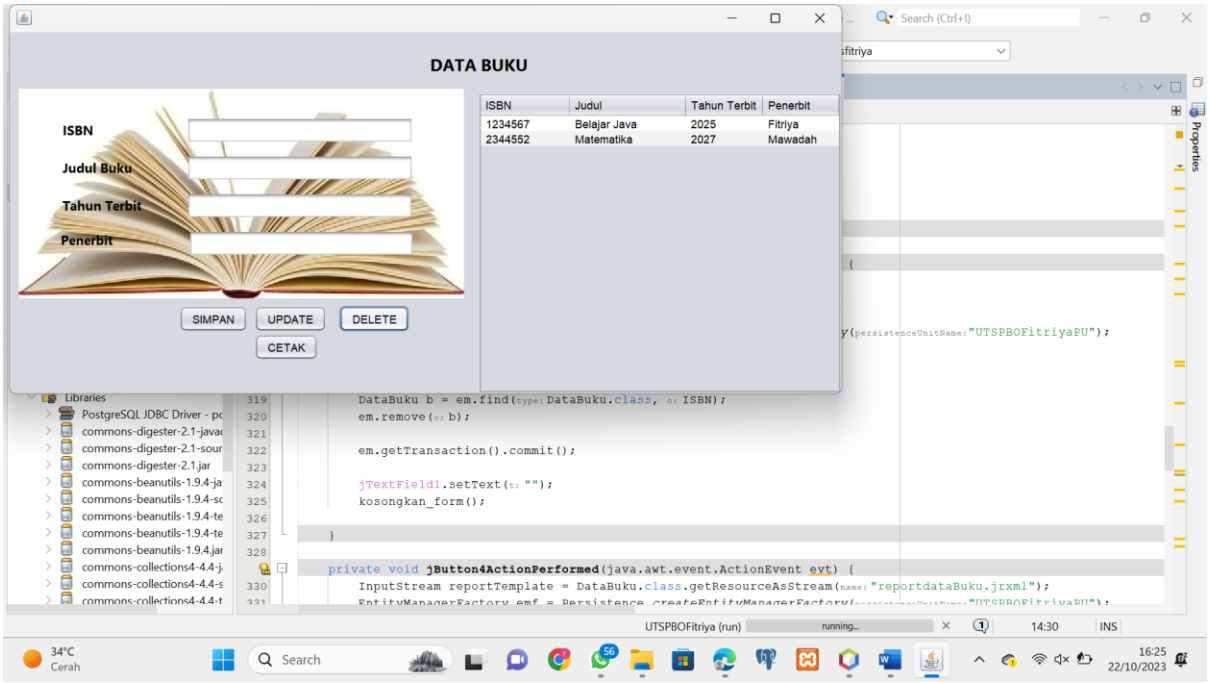

DATA BUKU
ISBN
7537891
Judul Buku
Belajar Javascript
Tahun Terbit
2029
Penerbit
Warohmah
SIMPAN
UPDATE
DELETE
CETAK
ISBN Judul Tahun Terbit Penerbit
1234567 Belajar Java 2025 Fitriya
2344552 Matematika 2027 Mawadah
7537891 Fisika 2029 Warohmah
Output - UTSPBOFitriya (run)
run:
UTSPBOFitriya (run) running...
282:26 INS
34°C Cerah
Search
16:13 22/10/2023



Selanjutnya, saya akan mengupdate data dengan ISBN 7537891, dengan mengganti Judul Buku menjadi Belajar Javascript. Maka tampilan yang muncul seperti data diatas. Data tersimpan setelah mengklik tombol update.

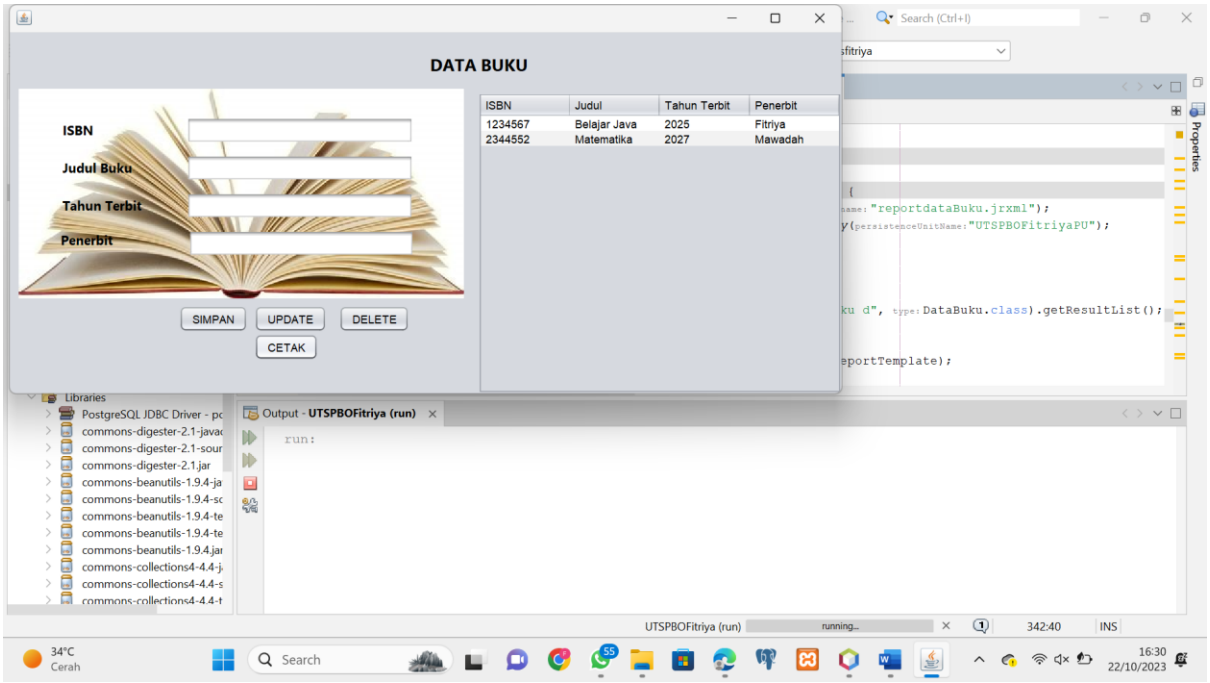

File Edit Format Preview View Navigate Source Refactor Run Debug Profile Team Tools Window Help
UTSPBOFitriya - Apache ...
Search (Ctrl+I)
<default config>
utsfitriya
Projects
Files
Services
Start Page
TampilanGUI.java
ProgramStudi.java
DataBuku.java
TampilanGUI.java
Source
Design
History
UTSPBOFitriya
Source Packages
META-INF
persistence.xml
utspbofitriya
DataBuku.java
DataBukuPOJO.java
TampilanGUI.java
b.jpg
bu.jpg
buku.jpg
buku2.jpg
buku3.jpg
reportdataBuku.jasper
reportdataBuku.jrxml
Test Packages
Libraries
jTextField1.setText("");
jTextField2.setText("");
jTextField3.setText("");
jTextField4.setText("");
kosongkan_form();
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
String ISBN = jTextField1.getText().trim();
EntityManagerFactory emf = Persistence.createEntityManagerFactory("UTSPBOFitriyaPU");
EntityManager em = emf.createEntityManager();
em.getTransaction().begin();
DataBuku b = em.find(DataBuku.class, ISBN);
em.remove(b);
em.getTransaction().commit();
jTextField1.setText("");
kosongkan_form();
private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
InputStream reportTemplate = DataBuku.class.getResourceAsStream("reportdataBuku.jrxml");
UTSPBOFitriya (run)
running...
14:30
INS Unix (LF)
34°C
Cerah
Search
16:25
22/10/2023

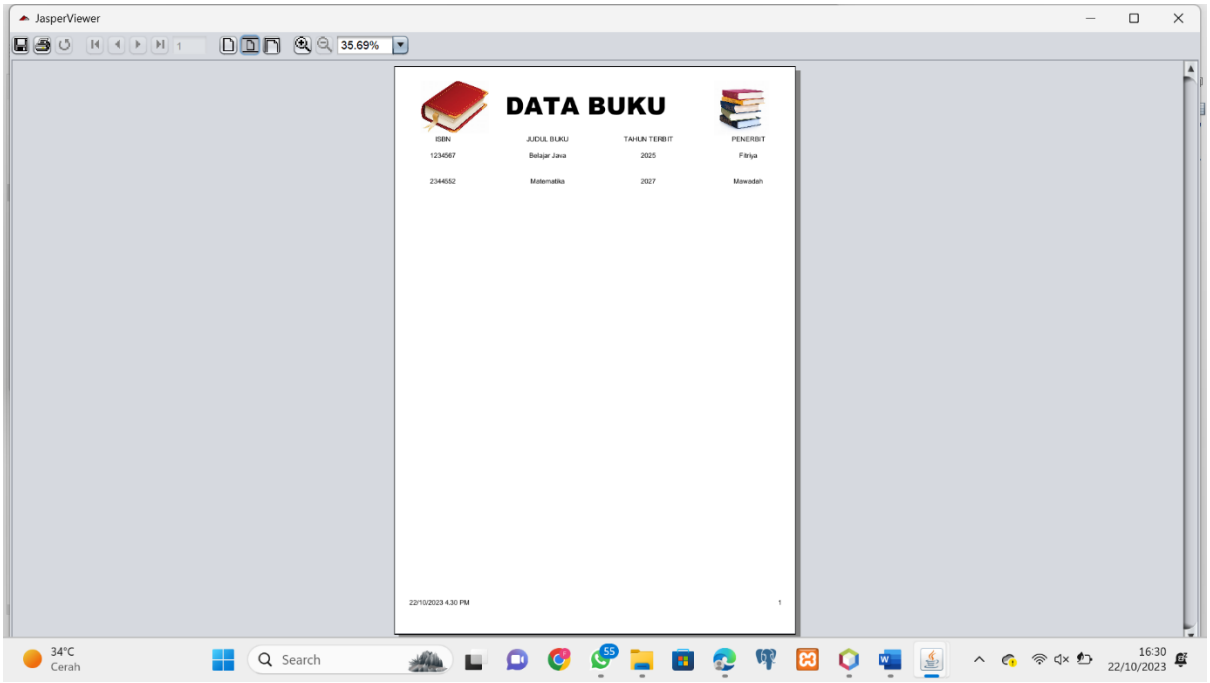

DATA BUKU
ISBN
7537891
Judul Buku
Belajar Javascript
Tahun Terbit
2029
Penerbit
Warohmah
SIMPAN
UPDATE
DELETE
CETAK
ISBN | Judul | Tahun Terbit | Penerbit
1234567 | Belajar Java | 2025 | Fitriya
2344552 | Matematika | 2027 | Mawadah
7537891 | Belajar Javascript | 2029 | Warohmah
UTSPBOFitriya (run)
running...
14:30
INS
34°C
Cerah
Search
16:25
22/10/2023



Lalu saya akan menghapus data dengan ISBN 7537891. Setelah tombol delete di klik maka data dengan ISBN tersebut akan otomatis terhapus seperti gambar diatas.

```java
    }

    private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
        InputStream reportTemplate = DataBuku.class.getResourceAsStream("reportdataBuku.jrxml");
        EntityManagerFactory emf = Persistence.createEntityManagerFactory("UTSPBOFitriyaPU");
        EntityManager em = emf.createEntityManager();

        em.getTransaction().begin();

        List<DataBuku> data = em.createQuery("SELECT d FROM DataBuku d", DataBuku.class).getResultList();
        JasperReport jasperReport;
        try {
            jasperReport = JasperCompileManager.compileReport(reportTemplate);
            Map<String, Object> parameters = null;
            JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, parameters, new JRBeanCollectionDa
            JasperViewer.viewReport(jasperPrint, false);

        } catch (JRException ex) {
            ex.printStackTrace();
        } finally {

            em.getTransaction().commit();
            em.close();
            emf.close();
        }
    }
```





Yang terakhir yaitu tombol cetak dengan source code diatas. Setelah mengklik tombol cetak maka akan muncul tampilan seperti gambar diatas.