# LAPORAN TUGAS MATA KULIAH

# PEMROGRAMAN BERORIENTASI OBYEK

***Pertemuan Keempat Belas: Penerapan Download Data File Csv***

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**SURABAYA**


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## A. PRAKTIKUM

### 1) Menambahkan pertanyaan untuk konfirmasi saat ubah password

a. Menambahkan field nama ibu dan konfirmasi password saat mendaftarkan akun

b. Kode pada tombol buat setelah ditambahkan field dan konfirmasi password

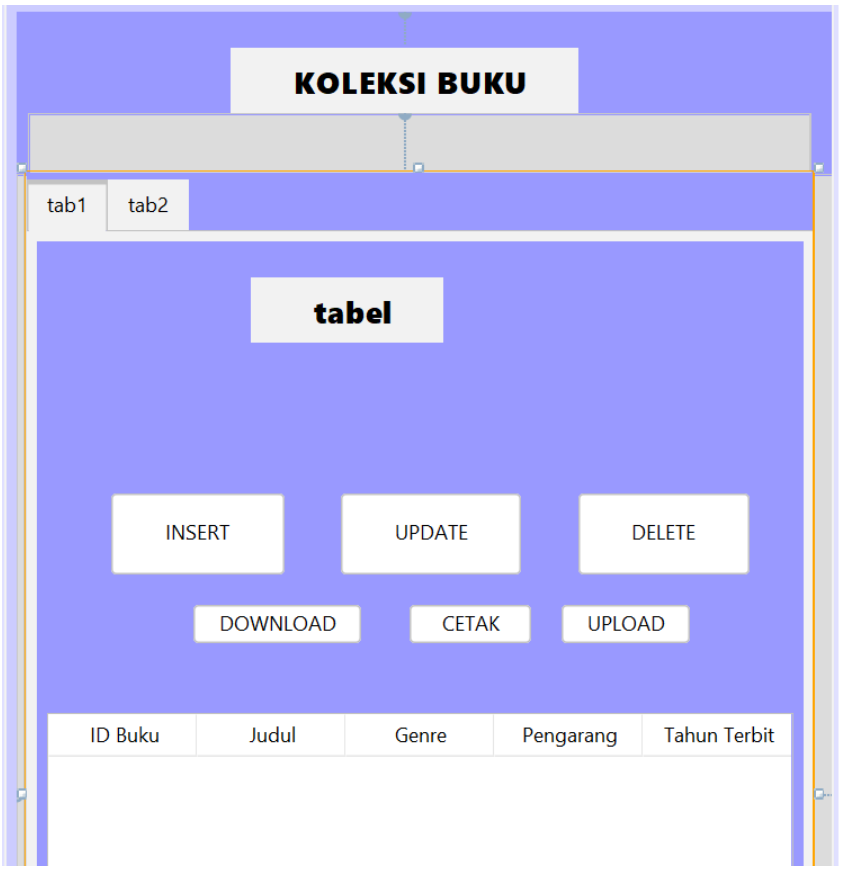
```
private void jButton8ActionPerformed(java.awt.event.ActionEvent evt) {
    String pw2 = new String(txtPassword.getPassword()).trim();
    String pw3 = new String(txtPw3.getPassword()).trim();
    char[] p2 = txtPassword.getPassword();
    char[] p3 = txtPw3.getPassword();

    if (txtUsername.getText().equals("")) {
        JOptionPane.showMessageDialog(this, "Isi Semua Data!",
            "Peringatan", JOptionPane.WARNING_MESSAGE);
    } else if (pw2.equals("")) {
        JOptionPane.showMessageDialog(this, "Isi Semua Data!",
            "Peringatan", JOptionPane.WARNING_MESSAGE);
    } else if (pw3.equals("")) {
        JOptionPane.showMessageDialog(this, "Isi Semua Data!",
            "Peringatan", JOptionPane.WARNING_MESSAGE);
    } else if (txtIbu.getText().equals("")) {
        JOptionPane.showMessageDialog(this, "Isi Semua Data!",
            "Peringatan", JOptionPane.WARNING_MESSAGE);
    } else if (pw2.length() < 8) {
        JOptionPane.showMessageDialog(this,
            "Password minimal 8 karakter!",
            "Peringatan", JOptionPane.WARNING_MESSAGE);
        return;
    } else if (!Arrays.equals(p2, p3)) {
        JOptionPane.showMessageDialog(this,
            "Password dan Konfirmasi Password tidak sama!",
            "Peringatan", JOptionPane.WARNING_MESSAGE);
        return;
    } else {
```

c. Tambahkan jOptionPane konfirmasi nama ibu saat ingin merubah password

```
            if (!q.getResultList().isEmpty()) {
                JOptionPane.showMessageDialog(this,
                    "Username sudah digunakan!",
                    "Peringatan",
                    JOptionPane.WARNING_MESSAGE);
                return;
            }

            em.getTransaction().begin();
            Akun a = new Akun();
            a.setUsername(txtUsername.getText());
            a.setPassword(new String(txtPassword.getPassword()));
            a.setNamaIbu(txtIbu.getText());

            em.persist(a);
            em.getTransaction().commit();

            JOptionPane.showMessageDialog(this, "Akun " + txtUsername.getText() + " berhasil
            bersih();
            dispose();
        } catch (Exception e) {
            JOptionPane.showMessageDialog(this, "Error: " + e.getMessage());
        }
    }
```

## 2) Menambahkan fitur download data ke dalam bentuk .csv

a. Menambahkan tombol download pada setiap tabbed pane tabel




b. Kode pada tombol download

```
    private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            if (jTable1.getRowCount() == 0) {
                JOptionPane.showMessageDialog(this, "Tidak ada data untuk diekspor!");
                return;
            }

            JnaFileChooser chooser = new JnaFileChooser();
            chooser.setMode(JnaFileChooser.Mode.Files);
            chooser.setTitle("Simpan Data Koleksi Buku");
            chooser.setDefaultFileName("KoleksiBuku");
            chooser.setMultiSelectionEnabled(false);
            Window Window = null;
            boolean action = chooser.showOpenDialog(Window);

            if (action) {

                String fileString = chooser.getSelectedFile().getAbsolutePath() + ".csv";
//                  exportToExcel(jTable1, fileString);
                exportToCSV(jTable1, fileString);
            }
        } catch (Exception e) {
            JOptionPane.showMessageDialog(this, "Gagal ekspor: " + e.getMessage());
        }
```

c. Tambahkan method untuk menyimpan dalam bentuk .csv

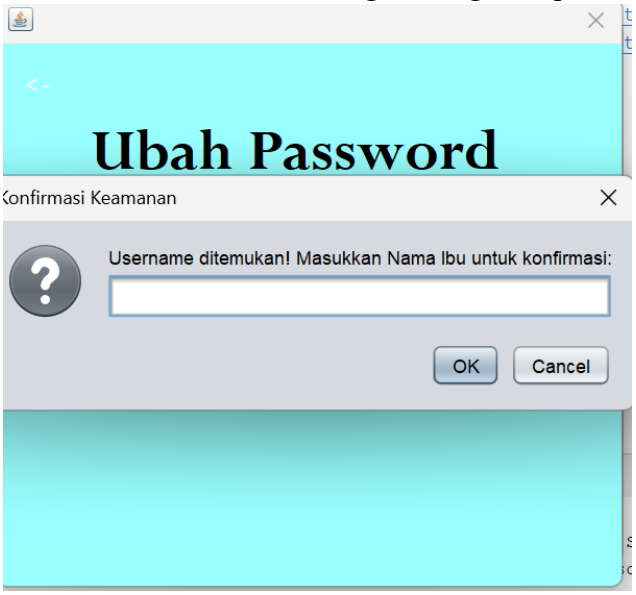
```
public void exportToCSV(JTable table, String filePath) {
    try (FileWriter writer = new FileWriter(filePath)) {

        TableModel model = table.getModel();

        // Tulis header
        for (int i = 0; i < model.getColumnCount(); i++) {
            writer.append(model.getColumnName(i));
            if (i < model.getColumnCount() - 1) {
                writer.append(";");
            }
        }
        writer.append("\n");

        // Tulis data baris
        for (int row = 0; row < model.getRowCount(); row++) {
            for (int col = 0; col < model.getColumnCount(); col++) {
                Object value = model.getValueAt(row, col);
                writer.append(value == null ? "" : value.toString());
                if (col < model.getColumnCount() - 1) {
                    writer.append(";");
                }
            }
            writer.append("\n");
        }

        writer.flush();
        JOptionPane.showMessageDialog(this, "Data berhasil diekspor ke CSV!");
```

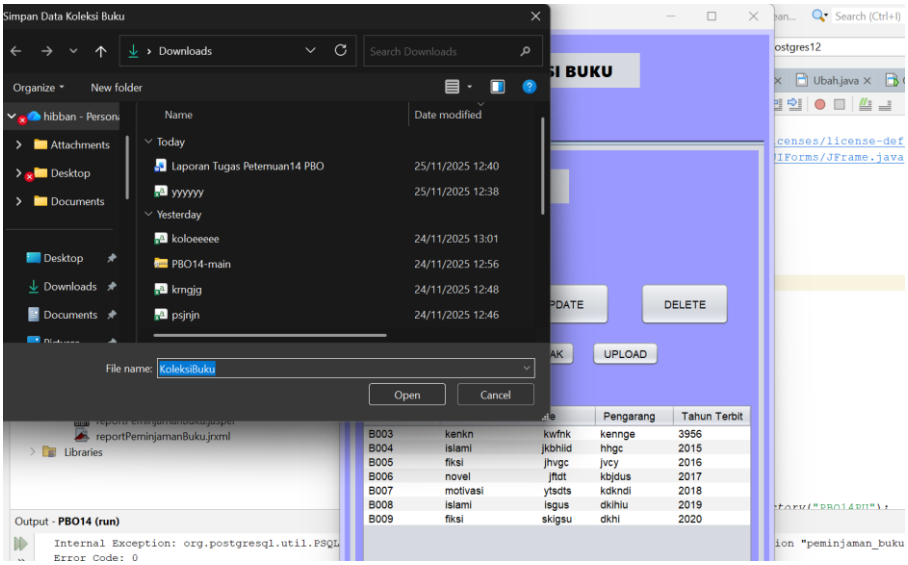
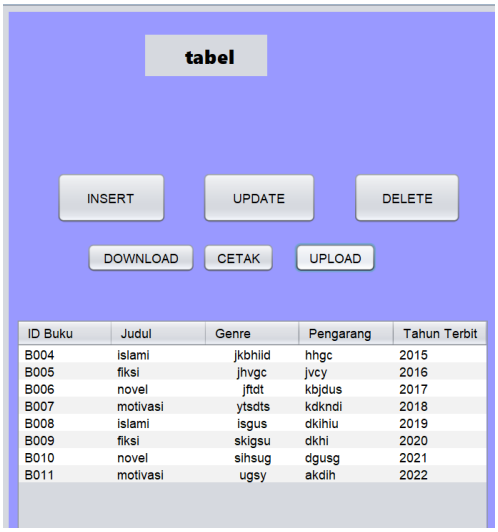
921:1 INS Unix (LF)

## 3) Output

a. Tampilan daftar akun

b. Konfirmasi nama ibu saat ingin mengubah password




c. Saat ingin download data tabel