### **Talend ETL Workflow - Student Handout**

#### Goal:

To create an ETL job in Talend that:

- Reads employee data from a CSV file using tFileInputDelimited.
- Filters out employees with salary <= 45000 using tFilterRow.
- Adds a new derived column salary\_grade using tMap.
- Displays the final data using tLogRow.

### Step 1: tFileInputDelimited

- Drag tFileInputDelimited to canvas.
- Set file path to employees.csv
- Field Separator: , | Header: 1
- Edit Schema:

```
empno (Integer)
```

empname (String)

sal (Integer)

designation (String)

dept (String)

#### Step 2: tFilterRow

- Drag tFilterRow and connect from tFileInputDelimited.
- In Basic settings, set condition:

InputColumn: sal

Function: Empty

Operator: Greater than

Value: 45000

### Step 3: tMap

- Connect from tFilterRow to tMap.
- Drag all input columns to output.

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- Add new column: salary\_grade (String).
- Set expression:

```
row2.sal >= 60000 ? "A" : (row2.sal >= 50000 ? "B" : "C")
```

## Step 4: tLogRow

- Connect tMap to tLogRow.

- Set Mode: Table

- Enable: Print content with log4j

# **Sample Output**

### **Bonus Tasks**

- Change filter condition to sal >= 50000 and dept == 'IT'.
- Replace tLogRow with tFileOutputDelimited to write to CSV.