**Important Instructions:**

* Please read the document thoroughly before you code.
* Please do not change the Business Requirements.

**Exercise 1:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load into a Flat file target. The target should be a tilde delimited file.

**Exercise 2:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load into the *CUSTOMER* table. Use the below DDL to create the customer table.

*CREATE TABLE CUSTOMER(*

*CUSTOMER\_ID INTEGER,*

*CUSTOMER\_FIRST\_NAME VARCHAR2(100),*

*CUSTOMER\_LAST\_NAME VARCHAR2(100),*

*EMAIL VARCHAR2(100),*

*GENDER VARCHAR2(10),*

*DOB DATE,*

*SSN VARCHAR2(100),*

*MOBILE VARCHAR2(100),*

*COUNTRY VARCHAR2(100),*

*ACCOUNT\_NUMBER VARCHAR2(100),*

*ACCOUNT\_OPENING\_DATE DATE,*

*CURRENT\_BALANCE DECIMAL(10,2)*

*)*

**Exercise 3:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and transform the data using the below logic:

Remove ‘–‘ from Mobile Number and load into target

The target shall be a comma separated Flat file in the below structure

*Customer\_id,Mobile,Email,Gender,Country*

**Exercise 4:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load the flat file target with the list of customers who has opened account after 2010.

The target shall be a tab separated Flat file in the below structure

*Customer\_id,Customer\_First\_Name,Customer\_Last\_Name,Account\_Number,Account\_Opening\_Date*

**Exercise 5:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load the 2 flat file targets. One for customers who has Mobile number and One for Customers without Mobile number.

The targets shall be a tab separated Flat file in the below structure

*Customer\_id,Mobile,Email,Gender,Country*

**Exercise 6:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load the flat file target, based on the most recent account opening date. The targets shall be a comma separated Flat file in the below structure

*Customer\_id,Customer\_First\_Name,Customer\_Last\_Name,Account\_Number,Account\_Opening\_Date*

**Exercise 7:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load the top 10 customers based on current balance in a ‘|’ flat file. The target structure shall be

*Customer\_id,SSN,Account\_Number,Current\_Balance*

**Exercise 8:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load only the United States customers data. A column surrogate key should be loaded with a continuous number. The target structure shall be

*Suurogate\_key,Customer\_Id,Country,Account\_Number, Current\_Balance*

**Exercise 9:**

Create a workflow to extract data from *Bank\_Data\_file\_1* & *Bank\_Data\_file\_3* and load the target in the below CSV format

*Customer\_Id,Account\_Number,Mobile,Country,Country\_code*

Hint: Use either connected or unconnected lookup

**Exercise 10:**

Create a workflow to extract data from *Bank\_Data\_file\_1* & *Bank\_Data\_file\_2* and load the target in the ‘~ delimited format. The target structure shall be

*Customer\_Id,Account\_Number,Mobile,Company\_Name*

Note: Implement all types of join (Inner, Master Outer, Detail Outer) in a single mapping

**Exercise 11:**

Create a workflow to extract data from *Bank\_Data\_file\_1* and load the average current balance for the customers for each country. The target shall be in the below TAB delimted format

*Customer\_Id,Account\_Number,Mobile,Country,Current\_Balance*