

## **East West University Department of Computer Science and Engineering**

## CSE 302: LAB Exam on Oracle APEX [Fall 2020]

Course Instructor: Dr. Mohammad Rezwanul Huq

## **Instructions:**

- 1. Download the file **LABEXAM\_Monthly\_Budget.ddl** from the Google Classroom or from the Google Drive course folder.
- 2. Login to your Oracle APEX Workspace.
- 3. Upload and execute the script LABEXAM\_Monthly\_Budget.ddl
- 4. Now, you have relevant tables created as per the relational data model shown in Figure 1. Some sample data is also inserted.
- 5. Create an application. The name of the application must be like **<LABEXAM\_your-student-id>**.
- 6. Create the following pages as per the description given in Table 1.

## **Table 1: List of Tasks**

Page Type/	Page Name	Description
Component		
Type		
Reports with	Person Form &	Create forms and reports on relevant tables: Person, Category
Forms	Person Report	and Transaction. Create drop-down list (Select List)
(5 points)	Category Form &	appropriately to enter the values of foreign keys.
	Category Report	
	Transaction Form &	
	Transaction Report	
	PersonImage Form	Form on PersonImage table. You must upload the photo of each person here.
Master Detail	Income Information	IncomeSource (Master) Table – Income (Child) Table
Form	per IncomeSource	
(1 point)		
Reports on	Report on Query I	Show Person id, name and image of the person. You must
Queries		provide the SQL in the submission form accordingly.
(3 points)	Report on Query II	Create a report that shows category-wise expense made by the
		person with id 1. You must provide the SQL in the submission
		form accordingly.
Parameterized	Transaction	This report takes a person id or name as input and when submit
Report	Information given a	it shows all transaction information made by that person
(2 points)	Person	including personId, personName, transactionId,
		transactionDate, categoryName, description and amount.
Chart	Chart I	Create a chart that shows maximum, average and minimum
(2 points)		expense made by all persons for each category. You must
<b>G</b> .		provide the SQL in the submission form accordingly.
Custom		Create a custom authentication so that you can log in to the
Authentication		application with appropriate user name and password. There
(2 points)		must be one account named 'admin' and the password should be
		'admin123'.
		Skip this part if you are not sure what to do! Because, incorrect
		implantation of this part could make the whole application
/D .*		inaccessible.
Trigger		Write a trigger that automatically updates the current balance
(Bonus)		when a new transaction is inserted. The amount of the new
		transaction must be subtracted from the current balance to update
		the balance automatically. You must provide the SQL in the
		submission form accordingly.

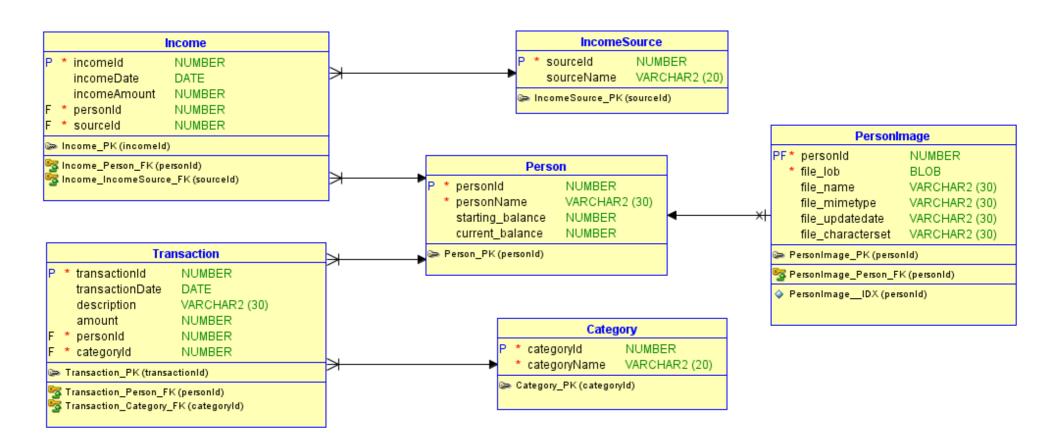


Figure 1: Relational Data Model