**Amrit Raj**

Student id : 1001723851

Net-Id : axl3851

**Project1 : Phase 1 Solution**

1. I have created the following 5 tables in the txt file “**Create\_Table\_Queries.txt**”

**Table Names:**

1. **COUNTRY** : Primary Key is attribute “Country\_Name”
2. **PLAYERS** : Primary Key is attribute “Player\_id” and Foreign key is “Country” attribute referring to the attribute “Country\_Name” of “COUNTRY” TABLE

There was one attribute “IS\_CAPTAIN” for which the datatype was Boolean which is not supported by Oracle database , this is the reason I used a Char(5) but with a check in(True, false)

c) **PLAYER\_CARDS** : Primary key is attribute “Player\_id” and Foreign Key is “Player\_id” referring to the attribute “Player\_id” of PLAYERS table

d) **PLAYER\_ASSIST\_GOALS** : Primary key is “Player\_id” and Foreign key is “Player\_id” referring to the attribute “Player\_id” of PLAYERS table

e) **MATCH\_RESULTS** : Primary key is “Match\_id” and Foreign keys are Team1 and Team2 referring to the “Country\_Name “ attribute of COUNTRY table.

1. I have transferred the “Create\_Table\_Queries.txt” to the Omega server using the FileZilla and executed the “txt file” containing the SQL Creation of table queries using the below commands . Before running the txt file, turned ON the Spooling .

Logged into the Omega Server using my net-id and password through PUTTY🡪 Connected to the Oracle Sql prompt using the command “ sqlplus /nolog “ 🡪 then connected to the database pcse1p.

**SQL> SPOOL Output\_Of\_CreateTables\_Spool\_File.txt**

**SQL> @Create\_Table\_Queries.txt**

**SQL> SPOOL OFF**

1. After running the above command , the SQL statements present in the txt file were executed successfully and the output was spooled in the text file “**Output\_Of\_CreateTables\_Spool\_File.txt** “ and the 5 tables were successfully created on the omega Server .
2. I have loaded the input-data into the oracle database 🡪tables using the Java programming with JDBC Connection using the Netbeans IDE by installing the required Jar files (ojdbc7.jar and poi-3.6.jar) in the project libraries.

I have removed the single quotes present in the .csv files and converted the .**CSV** files provided into **“.xls”** format .

My java Program read the input data in the form of an Excel file (**filename.xls** format)

**Project Name : JavaApplication1**

Created two packages : one for the Main Java class and other for the JDBC Connection

1. Package name : connection 🡪 ClassName : **JDBCconnect : where connection details to connect to the database is maintained .**
2. Package name : insertstatements 🡪 Java MainClassName : **Insert\_Into\_Tables**

In the Main Java class “ Insert\_Into\_Tables”, Created the below methods to load the data into the respective tables.

1)addPlayers() : To load the Players.xls file

2)addCountry () : to load the Country.xls file

3)addPlayerCards () : to load the Player\_Cards.xls file

4) addPlayerAssistGoals : to load the Player\_Assist\_goals.xls file

5) addMatchResult : to load the Match\_Results.xls file

6) main() method : Entry point for the Project

Please find the attached **“Create\_Table\_Queries.txt”** , “**Output\_Of\_CreateTables\_Spool\_File.txt “ ,**

**“Output\_Of\_JavaJDBCProgram\_Insert\_Into\_Tables”**

**Name of the Project is : JavaApplication1**