

Oracle Application Express – Application Development Foundations

Project Name:- LaLiga Information System

Project Description:

Spanish football league or La Liga (Spanish : of La LIGA) is an official tournament was founded in 1929 , the first division championship the Spanish league, and compete with clubs Spanish football to win the tournament , which is considered one of the elite patrols around the world and locked clubs 38 matches.

This system provides all information about the above the above system for this season only (2019/2020) so we need to cover all things about it including the teams, players, referee, coaches, transfer, stadiums, schedule and of course the result

The Minimum Project Tables and Constraints:

- Your system should at least store information about these Entities

Table Name	Description
Team	Store all information about team such as name, year, rating, ...
Player	Player information such as ID, <u>Fname</u> , <u>Lname</u> , age, Birthdate, position,
Coach	Player information such as ID, <u>Fname</u> , <u>Lname</u> , age, ...
Stadium	Stadium information such as ID, <u>Fname</u> , <u>Lname</u> , age, ...
Game	information such as date, time, stadium, result,
Others	Necessary to perform system functionality

2-3: Creating a Database Application

Create a desktop Database Application from Scratch for the OracleFlix application.

- Add an **Interactive Grid, Modal Dialog Report and Form** page for the **Team** table.
- Add an **Interactive Grid, Modal Dialog Report and Form** page for the **Player** table.
- Add an **Interactive Grid, Modal Dialog Report and Form** page for the **Game** table.

3-2: Developing Reports

Create reports based on tables.

- Create a Classic Report on the Home Page based on the **Game** table for any game currently played.
- Create an Interactive Report for the **Player** table. Name the report View All player, Create a new Navigation Entry and place the report as a navigation item under Player and include all columns of the Coach table.
- Create an Interactive Report for the **Stadium** table. Name the report View All Stad,
- Create an Interactive Grid for the **Game** table. Name the report View All games, Create a new Navigation Entry and place the report as a navigation item under Team and include all columns of the Players table.

3-3: Managing and Customizing Interactive Reports

Customize interactive reports based on tables.

- Customize the Interactive Report for View All Player based on the **Player** table to include a link for a single row view. Change the icon to the looking glass from the default edit icon.
- Customize the Interactive Report for View All Stadium based on the **Stadium** table to include a link for a single row view. Change the icon to the looking glass from the default edit icon.

4-1: Creating and Using Forms

Create forms based on tables.

- Create a Form on the Player table to add a new Player entry to the Player table. Name the report Add a Player, Create a new Navigation Entry and place the report as a navigation item under the Player Menu Item. On Submit branch to the main Player page and on Cancel branch to the Home Page of the application.
- Create a Form on the Game table to add a new game entry to the GAME table. Name the report Add an GAmE, Create a new Navigation Entry and place the report as a navigation item under the Game Menu Item. On Submit branch to the main GAmE page and on Cancel branch to the Home Page of the application.
- Create a Form on the Team table to add a new team entry to the TEAM table. Name the report Add a team, Create a new Navigation Entry and place the report as a navigation item under the Team Menu Item. On Submit branch to the main Movies page and on Cancel branch to the Home Page of the application.

4-2: Creating Application Page Controls

Create application page controls based on tables.

- Update the Add a player form to provide a static list of values for the Rating field to include A, B, C.

4-3: Adding Computations, Processes, and Validations

Create application page controls based on tables.

- Update the Add a Player form to create a computation that changes the value of the first name and last name fields entered using the form to all lowercase after the page is submitted.
- Update the Add an Game Form to create a not null validation on one column

5-1: Implementing Navigation in your Application

- Update the Navigation Menu entries, and include an appropriate icon for each of the Navigation items of Home, Game, Player and Team.

5-2: Using Themes and Theme Styles

- Create a new list entry to the Desktop Navigation Bar and make this new entry as a parent list entry to the Logout entry.
- Use the Theme Roller to save the changes made the Theme Style and enable users to apply this new Theme Style in the running application

5-3: Implementing Security in your Application

- For table name STAFF
 - create the table structure and add the sample data from the SAFF table sample data.
 - create sample data - add at least 4 rows, using the sequence to generate the PKs.

Table Name: **STAFF**

Table Definition:

Column Name	STAFF_ID	USERNAME	FIRST_NAME	LAST_NAME
Key Type	PK			
Not Null = NN Unique = U	NN, U	NN	NN	NN
Data Type	NUMBER	VARCHAR2	VARCHAR2	VARCHAR2
Length	30	40	25	25

Sample Data

STAFF_ID	USERNAME	FIRST_NAME	LAST_NAME
1001	STEVE.PITT	Steve	Pitt
1002	ANDY.THOMAS	Andrew	Thomas
1003	MARY.HARDY	Mary	Hardy
1004	JANE.STEWART	Jane	Stewart

- Create an authorization scheme to ensure only people entered as staff on the STAFF table can log into the application.

6-3: Migrating Application Development Between Environments

Export your final application from Application Builder and then use SQL Workshop to export database objects and seed data for submission to your tutor.