



# **CSE302: Database Systems (Section 1)** **[SUMMER 2023]**

## **Project Report**

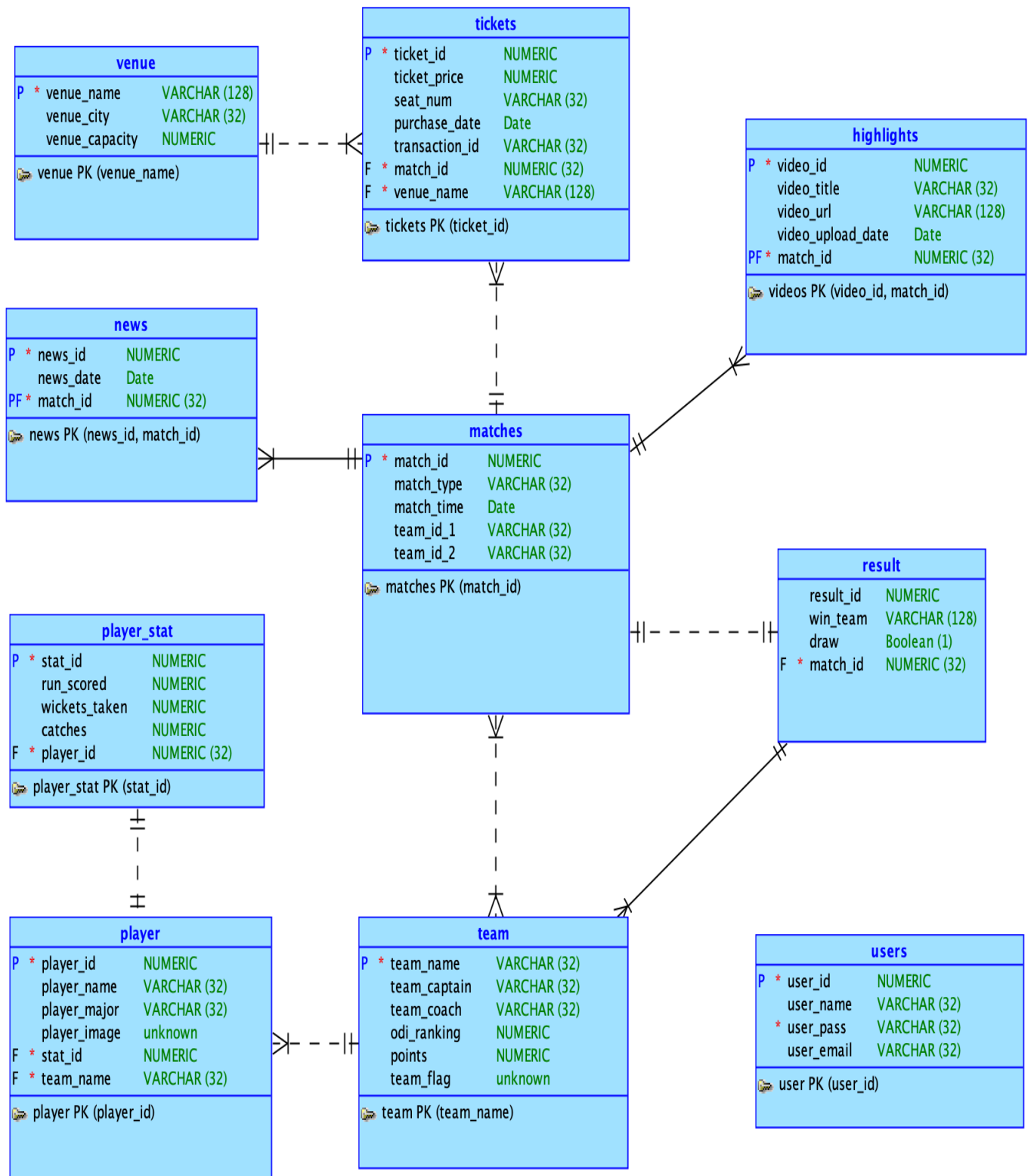
**Building a Database Application for  
ICC Men's Cricket World Cup 2023**

[ICC WORLD CUP 2023 \(mini project\) \(oracle.com\)](#)

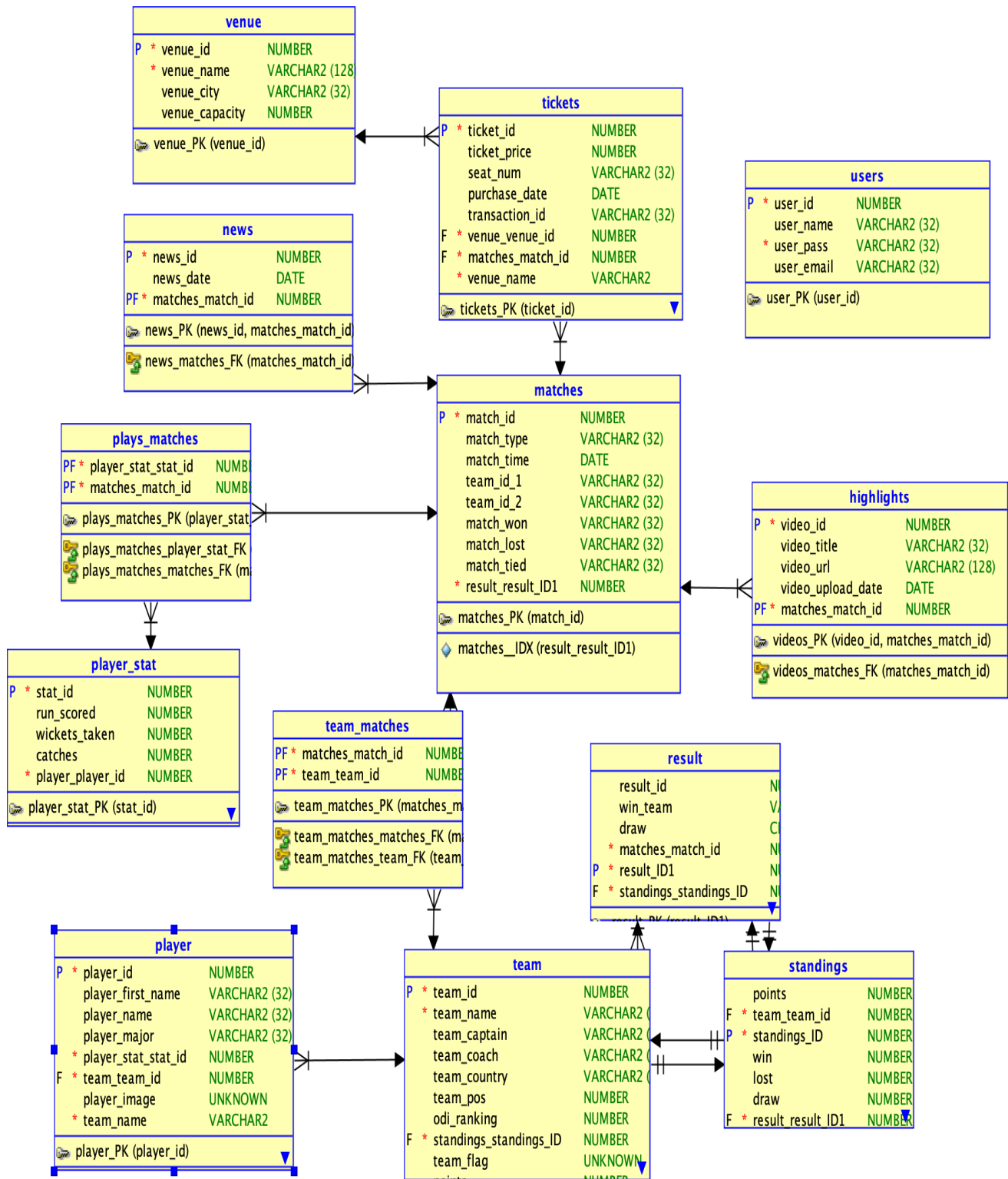
**Submitted by:**

<b>Student ID</b>	<b>Student Name</b>	<b>Contribution Percentage</b>
2021-3-60-117	Sagor Ahmed	45
2021-3-60-185	Syeda Tasmiah Chowdhury Orpa	55

## 1. E-R Model of the Project:



## 1. Relational Data Model of the Project:









## 2. Implementation Checklist







Description	Remarks
Project ID	267902
Workspace Name	cse302_project_icc2023
Workspace Email	sagorahmedmunna@gmail.com
Workspace Password	cse302project
Authentication Type	Application Express/Custom (keep the relevant one)
Username1	DMRH
Password1	DMRH
Username2	ADMIN
Password2	ADMIN
Username3	sagorahmedmunna@gmail.com
Password3	cse302project
Uploaded and Displayed Images in Reports	Yes
Implemented Page-wise Authorization	Yes
Number of Reports with Forms	9
Number of Master-detail Forms	1
Number of Reports based on Queries, Aggregate Queries	4
Number of Parameterized Reports	1
Number of Graphs/Charts	1
Included any trigger/other feature which is not taught in class. If yes, please explain briefly.	Yes, we have used triggers on the standings for the match. Also we have implemented a customized logo in the login page with custom authorization.
Write the most unique feature/functionality in your application or the page of your application that you are proud of. Explain briefly.	Dashboard.

### 3. Reports with Forms

Report Page Number and Name	Form Page Number and Name	Table
11 - Teams	2 - team input	team
13 - venues	3 - venue input	venue
16 - matches	4 - match input	match
41 - match finished	6 - result input	resut
22 - players info	7 - player input	player
	8 - player stat input	player stat
	38 - Registration	user logins
48 - tickets	45 - ticket input	tickets
52 - news	46 - news input	news
50 - highlights	47 - highlights input	highlights

Team Name	Captain	Coach	Odirank	Points	Flag
Netherlands	Scott Edwards	Ronald Koeman	14	1	
Sri Lanka	Dasun Shanaka	Chris Silverwood	8	0	
Pakistan	Babar Azam	Grant Bradburn	2	3	
Australia	Pat Cummins	Tony Gustavsson	1	0	
New-Zealand	Tom Latham	Gary Stead	6	1	
Bangladesh	Shakib Al Hasan	Chandika Mathurasinghe	7	2	






#### 3.1 Report of Teams

Home	venues			
dashboard	<input type="text"/> <input type="button" value="Go"/> <input type="button" value="Actions"/>			
Teams	Venue Name	Venue City	Venue Capacity	Venue Image
venues	BRS ABV Ekana Cricket Stadium	Lucknow	50,000	
matches	Wankhede Stadium	Mumbai	32,000	
players info	Assam Cricket Association Stadium	Guwahati	50,000	
team wise player	Narendra Modi Stadium	Ahmedabad	132,000	
match finished	Eden Gardens	Kolkata	66,000	
tickets	HPCA Stadium			
highlights	<input type="button" value="App 267902"/> <input type="button" value="Page 13"/> <input type="button" value="Session"/> <input type="button" value="Debug"/> <input type="button" value="Quick Edit"/> <input type="button" value="Customize"/> <input type="button" value="Info"/> <input type="button" value="Settings"/>			
news				

### 3.2 Report of venues

Home	matches			
dashboard	<input type="text"/> <input type="button" value="Go"/> <input type="button" value="Actions"/>			
Teams	Match num	Team1	Team2	Matchdate
venues	2	Pakistan	Netherlands	10/6/2023
matches	6	New-Zealand	Netherlands	10/9/2023
players info	8	Pakistan	Sri Lanka	10/10/2023
team wise player	4	South-Africa	Sri Lanka	10/7/2023
match finished	12	India	Pakistan	10/14/2023
tickets	5	India	Australia	10/8/2023
highlights	1	England	New-Zealand	10/5/2023
news	11	New-Zealand	Bangladesh	10/13/2023
	7	England	Bangladesh	10/10/2023
	3	Bangladesh	Afghanistan	10/7/2023
	9	India	Afghanistan	10/11/2023
	10	Australia	South-Africa	10/12/2023
	1 - 12			
	<input type="button" value="App 267902"/> <input type="button" value="Page 16"/> <input type="button" value="Session"/> <input type="button" value="Debug"/> <input type="button" value="Quick Edit"/> <input type="button" value="Customize"/> <input type="button" value="Info"/> <input type="button" value="Settings"/>			

### 3.3 Report of matches

Home	Teams \						
dashboard	players info						
Teams	<input type="text"/> <input type="button" value="Go"/> <input type="button" value="Actions"/>						
venues	Player Name	Player Major	Player Image	Team Name	Jersey Number	Run Scored	Wicket Taken
matches	Liton Das	WK-Batsman		Bangladesh	16	30	0
players info	Ebadot Hossain	Bowler		Bangladesh	58	0	1
team wise player	Shubman Gill	Batsman		India	77	0	0
match finished	Virat Kohli	Batsman		India	18	50	0
tickets	Quinton de Kock	Batsman		South-Africa	12	0	0
highlights	<input type="button" value="App 267902"/> <input type="button" value="Page 22"/> <input type="button" value="Session"/> <input type="button" value="Debug"/> <input type="button" value="Quick Edit"/> <input type="button" value="Customize"/> <input type="button" value="Info"/>						
news							

3.4 Report of players info

Home	match finished			
dashboard	<input type="text"/> <input type="button" value="Go"/> <input type="button" value="Actions"/>			
Teams	Team1	Points1	Team2	Points2
venues	Pakistan	2	Netherlands	0
matches	New-Zealand	1	Netherlands	1
players info	South-Africa	2	Sri Lanka	0
team wise player	India	1	Pakistan	1
match finished	England	2	New-Zealand	0
tickets	Bangladesh	2	Afghanistan	0
highlights	1 - 6			
news	<input type="button" value="App 267902"/> <input type="button" value="Page 41"/> <input type="button" value="Session"/> <input type="button" value="Debug"/> <input type="button" value="Quick Edit"/> <input type="button" value="Customize"/> <input type="button" value="Info"/>			

3.5 Report of match finished

dmrh

Home

dashboard

Teams

venues

matches

players info

team wise player

match finished

tickets

highlights

news

tickets

Q

Go

Actions

Ticket ID	Ticket Price	Ticket Num	Purchase Date	Transaction ID	Matchid	Venue
1	500	1	9/1/2023	123456789	3	HPCA Stadium

1 - 1

3.6 Report of tickets

dmrh

Home

dashboard

Teams

venues

matches

players info

team wise player

match finished

tickets

highlights

news

highlights

Q

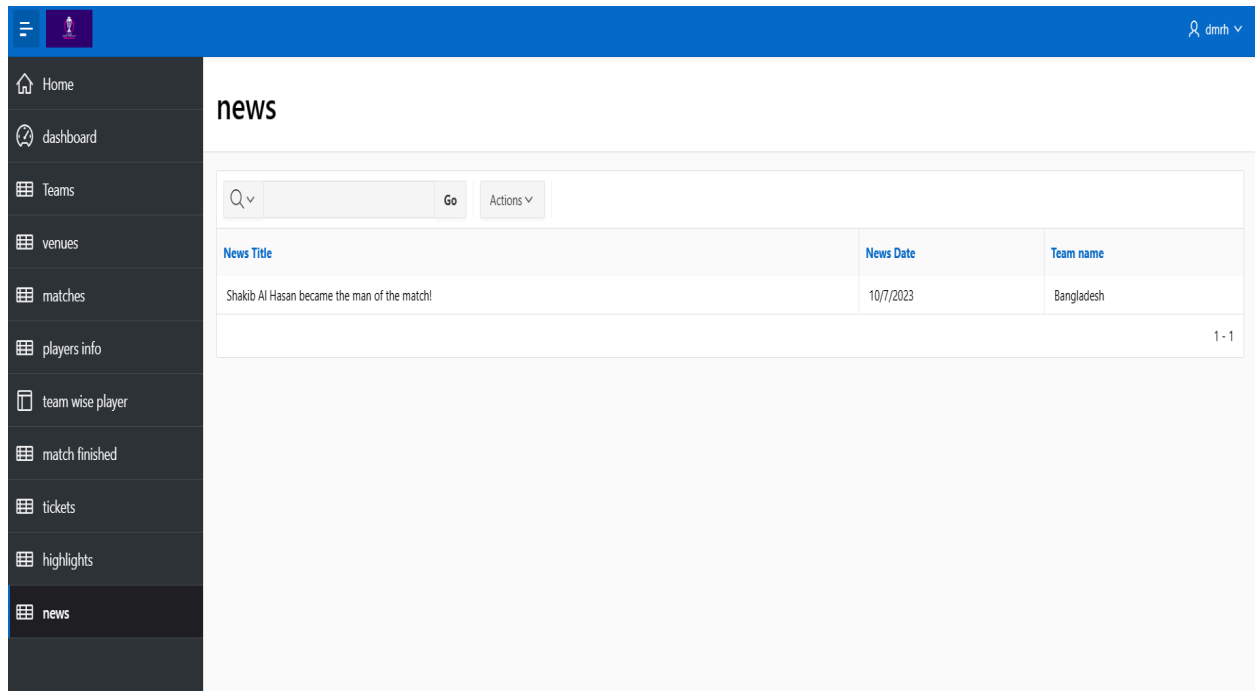
Go

Actions

Highlight Title	Highlight URL	Venue
Bangladesh VS Afghanistan	<a href="https://www.youtube.com/watch?v=ZPM7zgAInJg">https://www.youtube.com/watch?v=ZPM7zgAInJg</a>	M. A. Chidambaram Stadium

1 - 1

3.7 Report of highlights



### 3.8 Report of news

☰

admin

Home

dashboard

team input

venue input

match input

result input

Player Input

player stat input

ticket input

news input

highlights input

Teams

venues

matches

players info

## team input

team input

Id

Team Name

Captain

Coach

Odirank

Points

Flag

Choose File

Cancel

Create

### 3.9 Form of team input

venue input

venue input

Id

Venue Name

Venue City

Venue Capacity

Venue Image  
Choose File

Cancel Create

Release 1.0

3.10 Form of venue input

iccmatch

iccmatch

Id

Team1

Team2

Matchdate

Cancel Create

Release 1.0

3.11 Form of iccmatch input

The screenshot shows a web application interface with a sidebar menu on the left and a main content area. The sidebar menu includes options like Home, dashboard, team input, venue input, match input, result input (highlighted), Player Input, player stat input, ticket input, news input, highlights input, Teams, venues, matches, and players info. The main content area is titled 'result input' and contains a form with the following fields: Id (text input), Team1 (dropdown menu), Points1 (text input), Team2 (dropdown menu), Points2 (text input), and Matchid (text input). At the bottom of the form are 'Cancel' and 'Create' buttons. The bottom status bar shows 'Release 1.0' and various application tools like App 267902, Page 6, Session, Debug, Quick Edit, and Customize.

3.12 Form of result input

The screenshot shows the same web application interface as the previous one, but the sidebar menu has 'Player Input' highlighted. The main content area is titled 'Player Input' and contains a form with the following fields: Player ID (text input), Player Name (text input), Player Major (text input), Player Image (text input with a 'Choose File' button and a file icon), Team Name (dropdown menu), Jersey Number (text input), Run Scored (text input), and Wicket Taken (text input). The bottom status bar shows 'App 267902' and 'Page 7'.

3.13 Form of player input

The screenshot shows a web application interface for 'player stat input'. The sidebar on the left contains navigation links: Home, dashboard, team input, venue input, match input, result input, Player Input, **player stat input**, ticket input, news input, highlights input, Teams, venues, matches, and players info. The main content area is titled 'player stat input' and contains a form with the following fields: 'New', 'Run Scored', 'Wicket Taken', 'Catches', and 'Player Id' (a dropdown menu). A 'Cancel' button is located at the bottom left of the form, and a 'Create' button is at the bottom right. The footer of the application shows 'Release 1.0' and a toolbar with icons for App 267902, Page 10, Session, Debug, Quick Edit, Customize, and a settings icon.

3.14 Form of player stat input

The screenshot shows a web application interface for 'ticket input'. The sidebar on the left contains navigation links: Home, dashboard, team input, venue input, match input, result input, Player Input, player stat input, **ticket input**, news input, highlights input, Teams, venues, matches, and players info. The main content area is titled 'ticket input' and contains a form with the following fields: 'Id', 'Ticket Price', 'Ticket Num', 'Purchase Date' (with a calendar icon), 'Transaction Id', 'Matchid', and 'Venue Id' (a dropdown menu). A 'Cancel' button is located at the bottom left of the form, and a 'Create' button is at the bottom right. The footer of the application shows 'Page 45' and a toolbar with icons for App 267902, Page 45, Session, Debug, Quick Edit, Customize, and a settings icon.

3.15 Form of ticket input

The screenshot shows a web application interface with a dark sidebar on the left containing navigation links: Home, dashboard, team input, venue input, match input, result input, Player Input, player stat input, ticket input, news input (highlighted), highlights input, Teams, venues, matches, and players info. The main content area is titled 'news input' and contains a form with the following fields: 'Id', 'News Title', 'News Date' (with a calendar icon), and 'Matchid'. At the bottom of the form are 'Cancel' and 'Create' buttons. The footer of the application shows 'Release 1.0' and a status bar with icons for home, app (267902), page (46), session, debug, quick edit, customize, and a settings gear.

news input

news input

Id

News Title

News Date

Matchid

Cancel Create

Release 1.0

App 267902 Page 46 Session Debug Quick Edit Customize

3.16 Form of news input

The screenshot shows the same web application interface as the previous one, but the 'highlights input' form is active. The sidebar navigation remains the same. The main content area is titled 'highlights input' and contains a form with the following fields: 'Id', 'HI Title', 'HI Url', and 'Matchid'. At the bottom of the form are 'Cancel' and 'Create' buttons. The footer of the application shows 'Release 1.0' and a status bar with icons for home, app (267902), page (47), session, debug, quick edit, customize, and a settings gear.

highlights input

highlights input

Id

HI Title

HI Url

Matchid

Cancel Create

Release 1.0

App 267902 Page 47 Session Debug Quick Edit Customize

3.17 Form of highlights input

## 4. Master-Detail Form

Page Number and Name	Master Table (Parent)	Detail Table (Child)
35 - team wise player	Team	Player

dmrh

team wise player

Q

Search: All Text Columns

Go

Actions

Edit

Add Row

Reset

Team Name ↑	Captain	Coach	Odirank	Points
India	Rohit Sharma	Rahul Dravid	3	1
Netherlands	Scott Edwards	Ronald Koeman	14	1
New-Zealand	Tom Latham	Gary Stead	6	1
Pakistan	Babar Azam	Grant Bradburn	2	3
South-Africa	Temba Bavuma	Jacques Nienaber	5	2
Sri Lanka	Dasun Shanaka	Chris Silverwood	8	0
1 rows selected				Total 10

Q

Search: All Text Columns

Go

Actions

Edit

Add Row

Reset

Player Name ↑	Player Major		Jersey Number	Run Scored	Wicket Taken	Catches
Afif Hossain	All-rounder	Bangladesh	18	0	0	0
Ebadot Hossain	Bowler	Bangladesh	58	0	1	0
Litton Das	WK-Batsman	Bangladesh	16	30	0	0
Mehidy Hasan Miraz	All-rounder	Bangladesh	53	0	0	0
Mohammad Saifuddin	All-rounder	Bangladesh	74	0	0	0
1 rows selected				Total 10		

App 267902

Page 35

Session

Debug

Quick Edit

Customize

Info

Settings

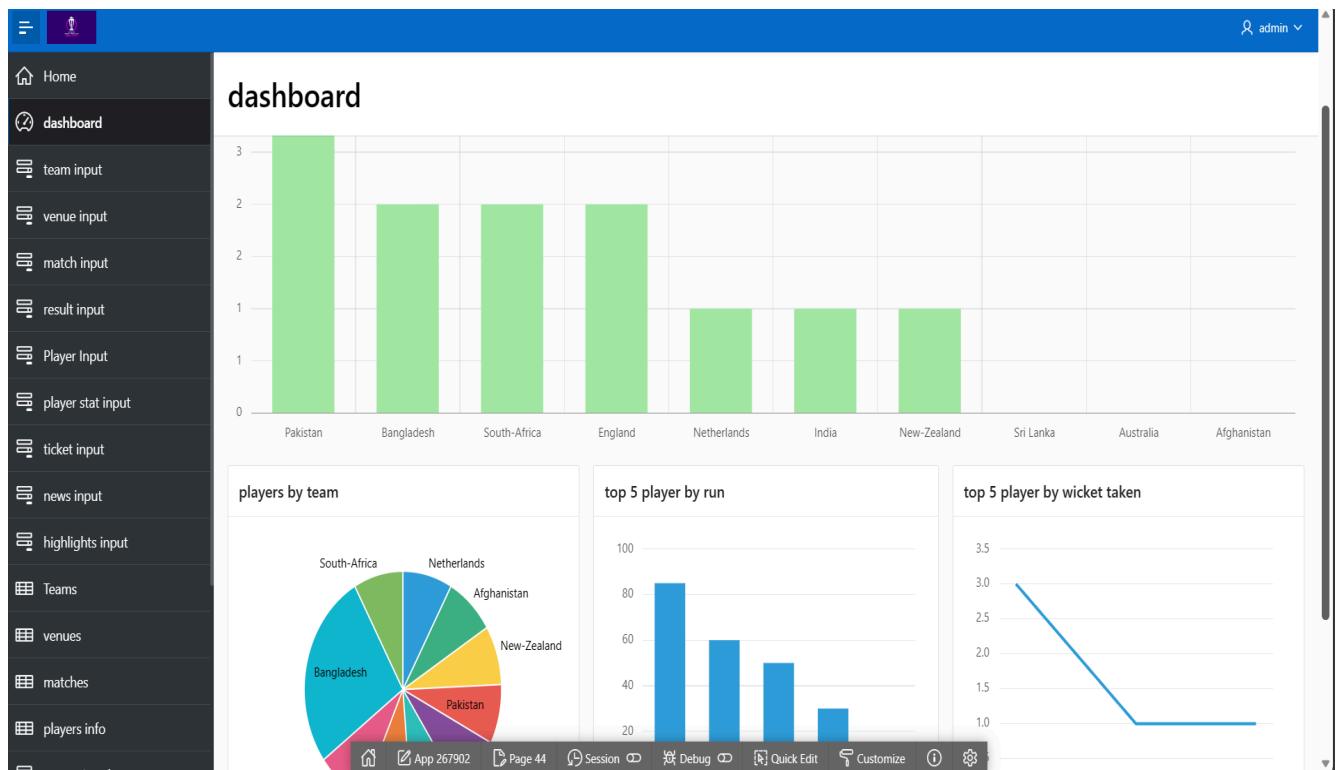
team-wise player Information

## 5. Reports based on Multi-Table and Aggregate Queries

Page Number and Name	Query Type	Report description
44 - dashboard	Multi-table/Aggregate	Team wise players

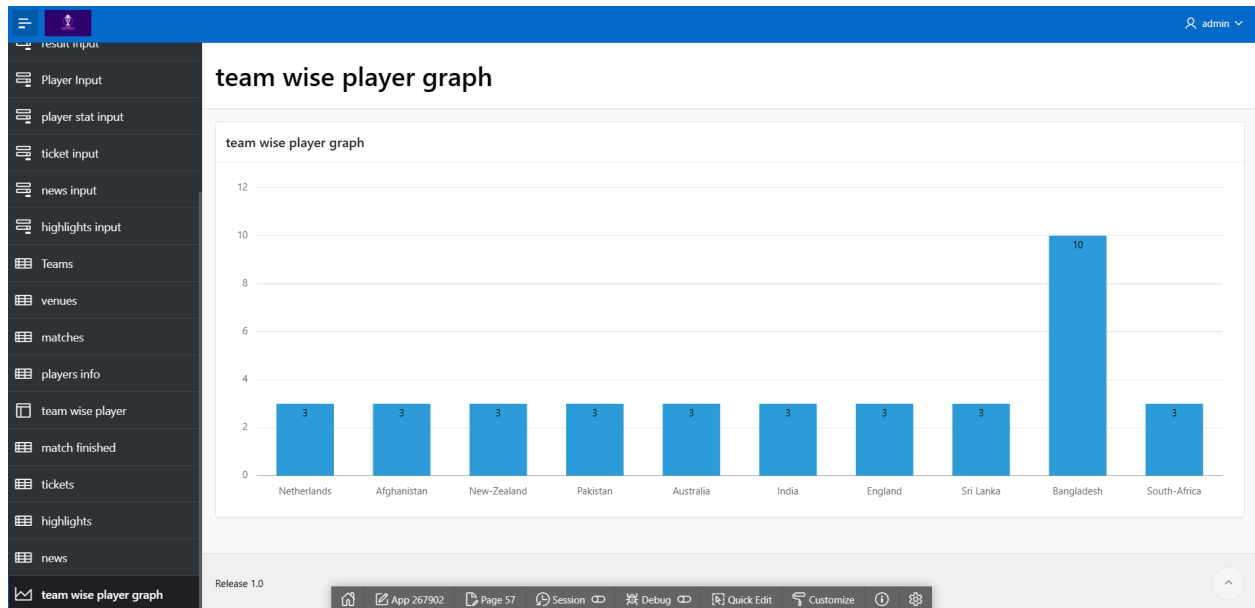
## 6. Parameterized Reports

Page Number and Name	Given Input	Report description
44 - dashboard	graph	Top 5 players by runs and wicket taken



## 7. Charts and Other Pages

Page Number and Name	Chart description
57 - team wise player graph	Shows the players count by team



7.1 Chart of team wise player graph

## 8. Authorization and User Role Assignment

### User Role Assignment

User name	Password	Role
DMRH	DMRH	Reader
ADMIN	ADMIN	Administrator
sagorahmedmunna@gmail.com	cse302project	Administrator

### Page-wise Authorization Information

Page number and name	Authorization Level
2 - team input	Administrator
3 - venue input	Administrator
4 - match input	Administrator
6 - result input	Administrator
7 - player input	Administrator
8 - player stat input	Administrator
38 - Registration	Administrator
45 - ticket input	Administrator
46 - news input	Administrator
47 - highlights input	Administrator
11 - Teams	Reader

13 - venues	Reader
16 - matches	Reader
41 - match finished	Reader
22 - players info	Reader
48 - tickets	Reader
52 - news	Reader
50 - highlights	Reader
44 - dashboard	Reader
57 - team wise player graph	Reader

## 9. Concluding Remarks

We have developed an application for the ICC Men's Cricket World Cup on apex oracle. As we are beginners, it was kinda hard for the two of us to complete the whole process of building the app. We had to change our ER Model so many times throughout the process and it was kind of frustrating. Lastly we decided to go with the above design and execute the whole thing in the apex oracle. We have learned so many things like form making, report making, designing, creating master table, executing triggers, dashboard customization and many more. Moreover, it was a really overwhelming experience. Thank you for this opportunity.