



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

### Project Report

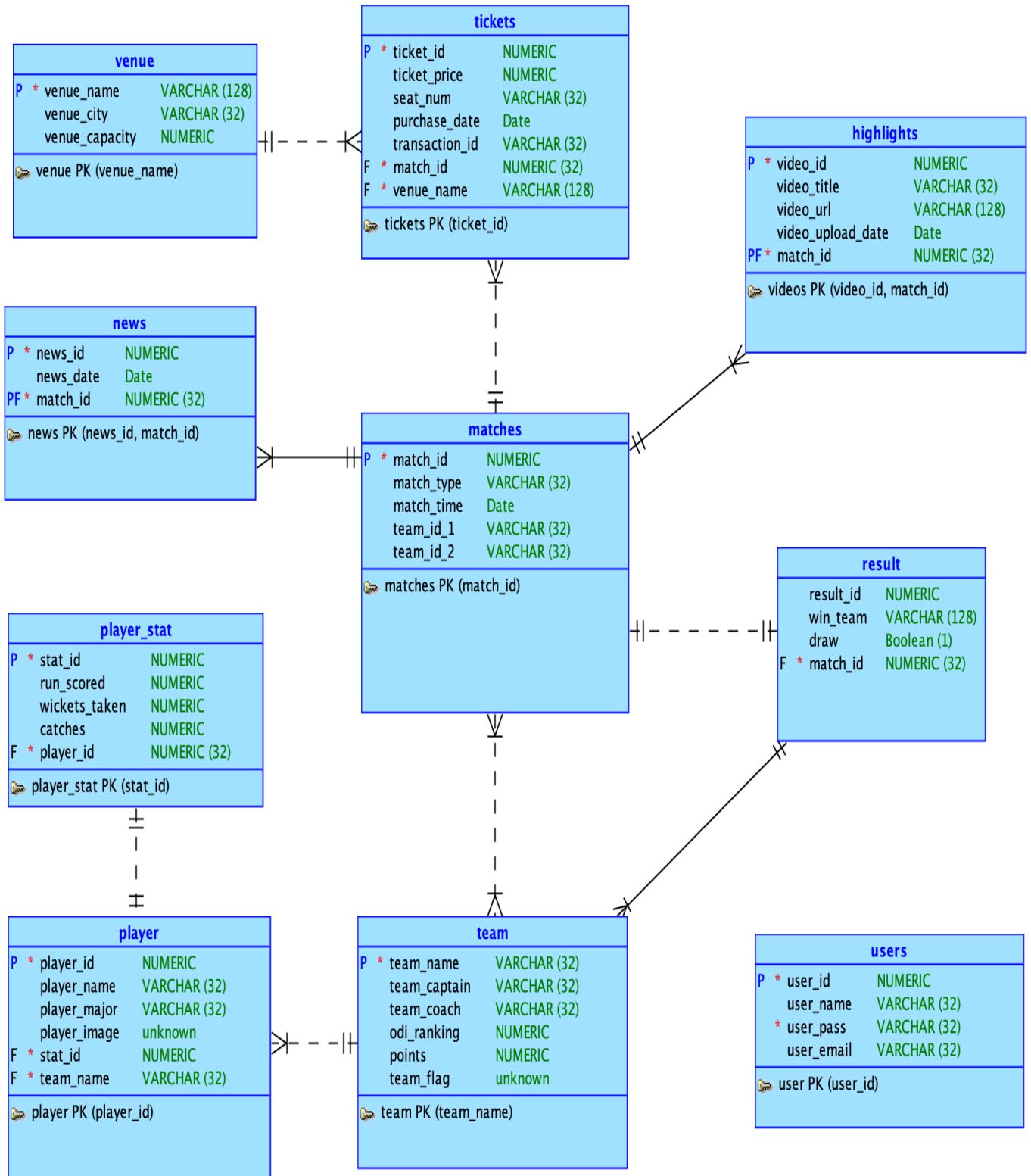
#### Building a Database Application for ICC Men's Cricket World Cup 2023

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

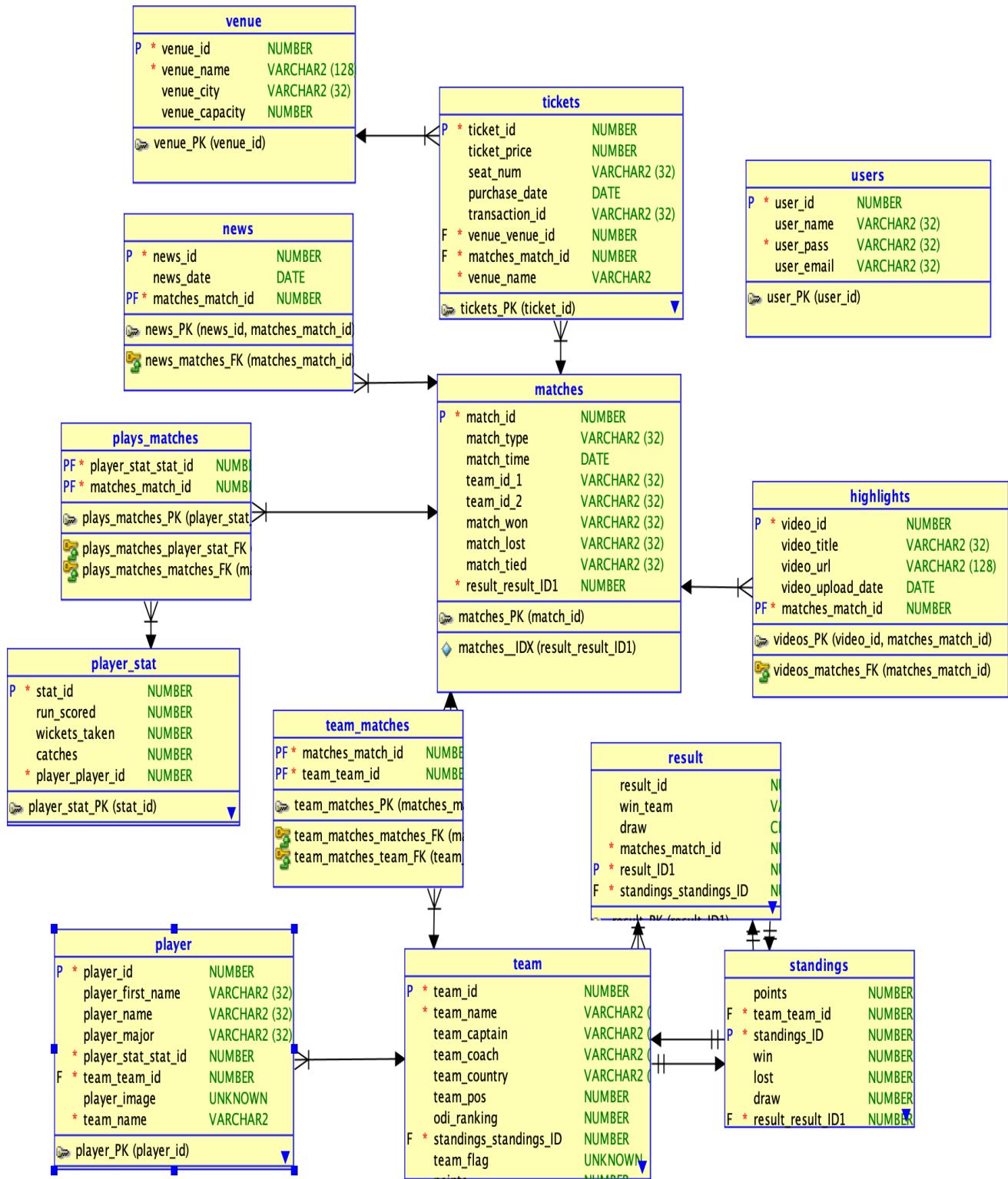
**Submitted by:**

Student ID	Student Name	Contribution Percentage
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	result
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

The screenshot shows a web application interface for managing teams. On the left is a dark sidebar with navigation links: Home, dashboard, Teams (which is selected), venues, matches, players info, team wise player, match finished, tickets, highlights, and news. The main content area has a blue header bar with a search icon, a 'Go' button, and an 'Actions' dropdown. Below the header is a table titled 'Teams' with the following columns: Team Name, Captain, Coach, Odrank, Points, and Flag. The table lists six teams:

Team Name	Captain	Coach	Odrank	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 Hathurusinghe	7	2	

At the bottom of the page, there is a footer bar with icons for home, session, debug, quick edit, customize, and help.

3.1 Report of Teams

venues

<input type="text"/> Go Actions ▾			
Venue Name	Venue City	Venue Capacity	Venue Image
BRS ABV Ekana Cricket Stadium	Lucknow	50,000	
Wankhede Stadium	Mumbai	32,000	
Assam Cricket Association Stadium	Guwahati	50,000	
Narendra Modi Stadium	Ahmedabad	132,000	
Eden Gardens	Kolkata	66,000	
HPCA Stadium			

### 3.2 Report of venues

matches

<input type="text"/> Go Actions ▾			
Match num	Team1	Team2	Matchdate
2	Pakistan	Netherlands	10/6/2023
6	New-Zealand	Netherlands	10/9/2023
8	Pakistan	Sri Lanka	10/10/2023
4	South-Africa	Sri Lanka	10/7/2023
12	India	Pakistan	10/14/2023
5	India	Australia	10/8/2023
1	England	New-Zealand	10/5/2023
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

### 3.3 Report of matches

Teams \ players info

Player Name	Player Major	Player Image	Team Name	Jersey Number	Run Scored	Wicket Taken	Catches
Liton Das	WK-Batsman		Bangladesh	16	30	0	
Ebadot Hossain	Bowler		Bangladesh	58	0	1	0
Shubman Gill	Batsman		India	77	0	0	0
Virat Kohli	Batsman		India	18	50	0	0
Quinton de Kock	Batsman		South-Africa	12	0	0	0

App 267902 Page 22 Session Debug Quick Edit Customize

### 3.4 Report of players info

match finished

Team1	Points1	Team2	Points2	Matchid
Pakistan	2	Netherlands	0	2
New-Zealand	1	Netherlands	1	6
South-Africa	2	Sri Lanka	0	4
India	1	Pakistan	1	12
England	2	New-Zealand	0	1
Bangladesh	2	Afghanistan	0	3

Release 1.0 App 267902 Page 41 Session Debug Quick Edit Customize

### 3.5 Report of match finished

The screenshot shows a dark-themed application interface with a sidebar on the left containing navigation links. The main area is titled "tickets". A search bar at the top includes a dropdown menu, a "Go" button, and an "Actions" dropdown. Below the search bar is a table with the following columns: Ticket ID, Ticket Price, Ticket Num, Purchase Date, Transaction ID, Matchid, and Venue. One row of data is present in the table.

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

The screenshot shows a dark-themed application interface with a sidebar on the left containing navigation links. The main area is titled "highlights". A search bar at the top includes a dropdown menu, a "Go" button, and an "Actions" dropdown. Below the search bar is a table with the following columns: Highlight Title, Highlight URL, and Venue. One row of data is present in the table.

Highlight Title	Highlight URL	Venue
Bangladesh VS Afghanistan	<a href="https://www.youtube.com/watch?v=ZPM7zgAijNg">https://www.youtube.com/watch?v=ZPM7zgAijNg</a>	M. A. Chidambaram Stadium

1 - 1

### 3.7 Report of highlights

The screenshot shows a web application interface. On the left is a dark sidebar menu with various options like Home, dashboard, Teams, venues, matches, players info, team wise player, match finished, tickets, highlights, and news. The 'news' option is highlighted. The main content area has a blue header bar with a search icon and user info 'dmth'. Below the header is a title 'news'. Underneath is a table with one row. The table has columns for 'News Title', 'News Date', and 'Team name'. The data in the first row is: 'Shakib Al Hasan became the man of the match!', '10/7/2023', and 'Bangladesh'. At the bottom right of the table is the number '1 - 1'.

News Title	News Date	Team name
Shakib Al Hasan became the man of the match!	10/7/2023	Bangladesh

3.8 Report of news

The screenshot shows a web application interface. On the left is a dark sidebar menu with options like 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, and team wise player. The 'team input' option is highlighted. The main content area has a blue header bar with a search icon and user info 'admin'. Below the header is a title 'team input'. Underneath is a form with several input fields: 'Id' (text), 'Team Name' (text), 'Captain' (text), 'Coach' (text), 'Odirank' (text), 'Points' (text), 'Flag' (text), and 'Choose File' (file input). At the bottom left is a 'Cancel' button, and at the bottom right is a 'Create' button.

3.9 Form of team input

The screenshot shows a web application interface with a dark sidebar menu on the left and a light-colored main content area. The sidebar contains various navigation items such as Home, dashboard, team input, venue input (which is currently selected), 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 has a title 'venue input' and a sub-section title 'venue input'. It contains several input fields: 'Id' (text input), 'Venue Name' (text input), 'Venue City' (text input), 'Venue Capacity' (text input), 'Venue Image' (file input with a 'Choose File' button and a browse icon), and a 'Cancel' button. In the bottom right corner of the main area is a blue 'Create' button. At the very bottom of the screen is a footer bar with icons for home, app info (App 267902), page number (Page 3), session, debug, quick edit, customize, and help.

3.10 Form of venue input

This screenshot shows another part of the application with a similar layout. The sidebar menu includes items like Home, dashboard, team input, venue input, match input (which is selected), result input, Player Input, player stat input, ticket input, news input, highlights input, Teams, venues, matches, and players info. The main content area has a title 'iccmatch' and a sub-section title 'iccmatch'. It contains four dropdown or select input fields: 'Id', 'Team1', 'Team2', and 'Matchdate'. Below these fields are 'Cancel' and 'Create' buttons. The footer bar at the bottom includes icons for home, app info (App 267902), page number (Page 4), session, debug, quick edit, customize, and help.

3.11 Form of iccmatch input

The screenshot shows a software application window titled "result input". On the left is a dark sidebar menu with various options like Home, dashboard, team input, venue input, match input, result input (which is selected and highlighted in blue), Player Input, player stat input, ticket input, news input, highlights input, Teams, venues, matches, and players info. The main content area has a title "result input" and contains five input fields: "Id" (with value "Team1"), "Points1", "Team2" (with value "Points2"), "Points2", and "Matchid". At the bottom right of the form is a blue "Create" button. The footer of the window displays "Release 1.0" and standard navigation icons.

3.12 Form of result input

The screenshot shows a software application window titled "Player Input". The sidebar menu is identical to the one in the previous screenshot, with "Player Input" being the selected item. The main content area has a title "Player Input" and contains several input fields: "Player ID", "Player Name", "Player Major", "Player Image" (with a "Choose File" button and a small trash icon), "Team Name" (with a dropdown arrow icon), "Jersey Number", "Run Scored", and "Wicket Taken". The footer of the window displays "Release 1.0" and standard navigation icons.

3.13 Form of player input

The screenshot shows a web-based application interface for managing player statistics. On the left, a dark sidebar menu lists various entities: Home, dashboard, team input, venue input, match input, result input, Player Input, player stat input (which is currently selected), ticket input, news input, highlights input, Teams, venues, matches, and players info. The main content area is titled "player stat input". It contains a sub-header "player stat input" and several input fields: "New", "Run Scored", "Wicket Taken", "Catches", and "Player Id" (with a dropdown arrow icon). At the bottom right of the form is a blue "Create" button. The footer of the page displays "Release 1.0" and standard navigation icons.

3.14 Form of player stat input

The screenshot shows a web-based application interface for managing tickets. The sidebar menu is identical to the one in the previous screenshot, with "ticket input" also being selected. The main content area is titled "ticket input". It contains a sub-header "ticket input" and several input fields: "Id", "Ticket Price", "Ticket Num", "Purchase Date" (with a calendar icon), "Transaction Id", "Matchid", and "Venue Id" (with a dropdown arrow icon). At the bottom right of the form is a blue "Create" button. The footer of the page displays "Release 1.0" and standard navigation icons.

3.15 Form of ticket input

The screenshot shows a web-based application interface for managing news inputs. The top navigation bar is blue with the text "admin" and a user icon. On the left, a dark sidebar menu lists various entities: Home, dashboard, team input, venue input, match input, result input, Player Input, player stat input, ticket input, news input (which is highlighted in blue), highlights input, Teams, venues, matches, and players info. The main content area has a title "news input". Below the title is a form with four input fields: "Id", "News Title", "News Date" (with a calendar icon), and "Matchid". At the bottom right of the form is a blue "Create" button. The footer contains the text "Release 1.0" and several small icons for navigation and settings.

3.16 Form of news input

The screenshot shows a web-based application interface for managing highlights inputs. The top navigation bar is blue with the text "admin" and a user icon. On the left, a dark sidebar menu lists various entities: Home, dashboard, team input, venue input, match input, result input, Player Input, player stat input, ticket input, news input, highlights input (which is highlighted in blue), Teams, venues, matches, and players info. The main content area has a title "highlights input". Below the title is a form with four input fields: "Id", "Hi Title", "Hi Url", and "Matchid". At the bottom right of the form is a blue "Create" button. The footer contains the text "Release 1.0" and several small icons for navigation and settings.

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

The screenshot shows a web-based application interface with two main sections:

- Top Section (team wise player):**

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
- Bottom Section (team-wise player Information):**

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

1 rows selected      Total 10

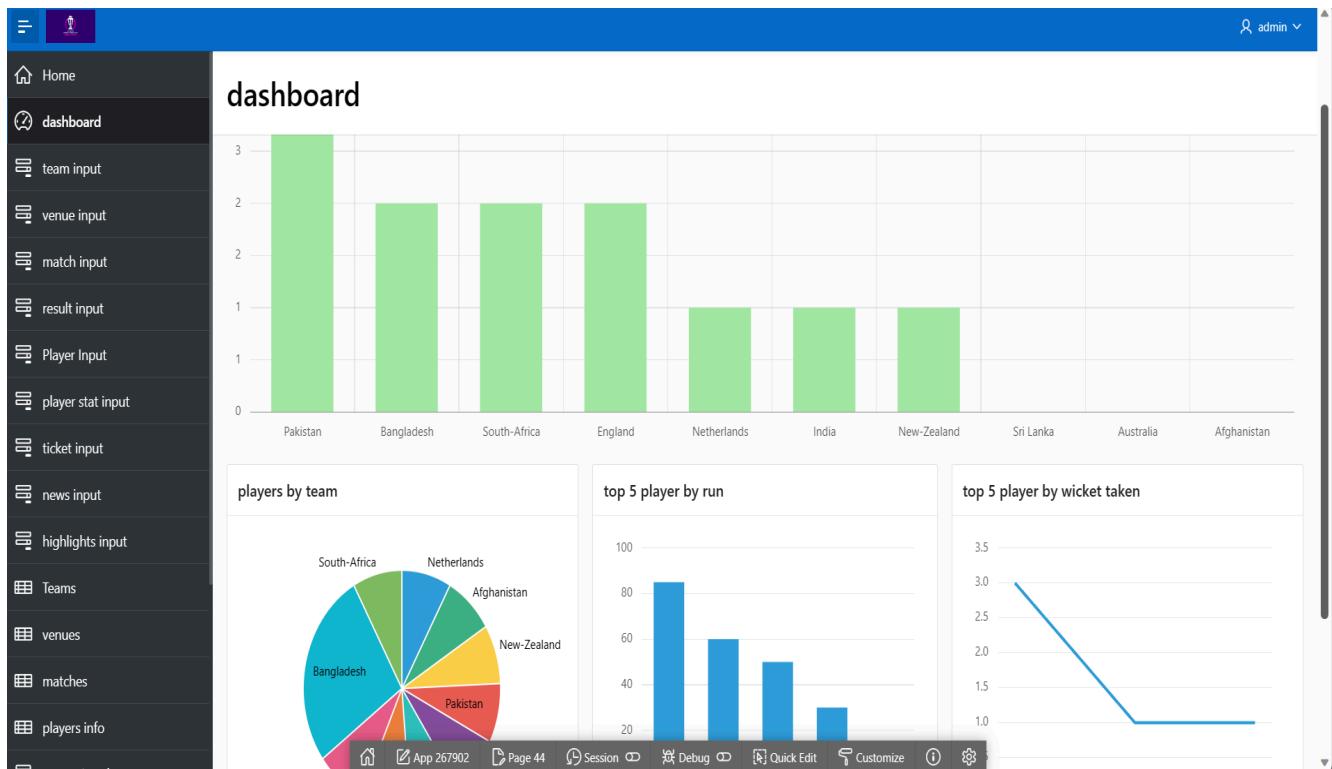
team-wise player Information

## 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

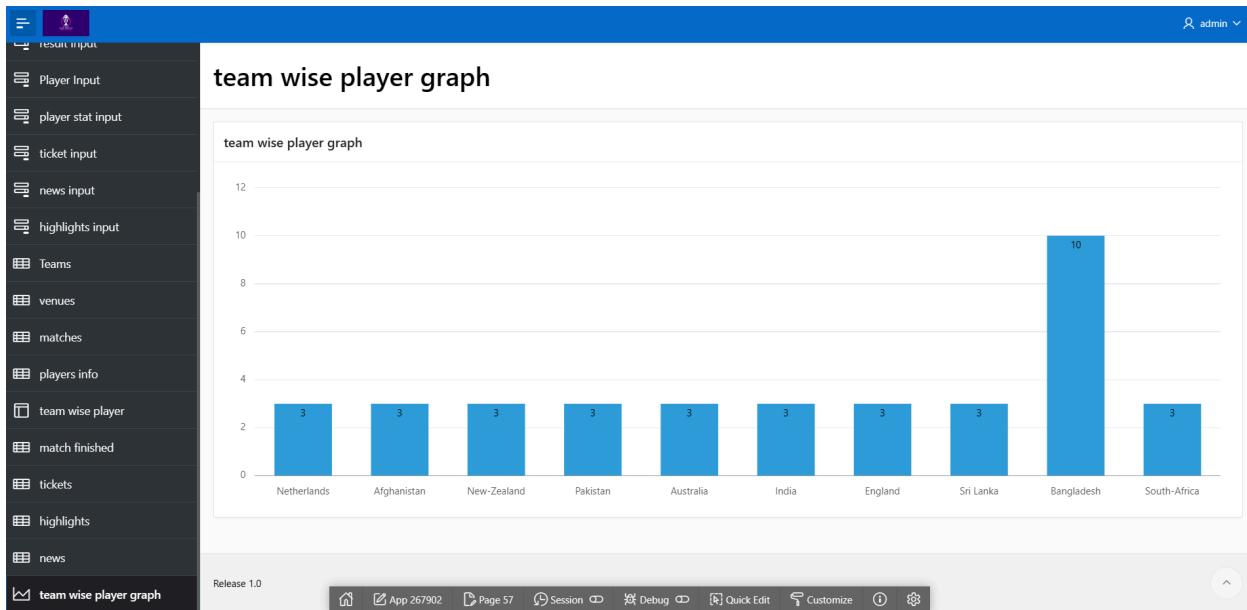
## 6. Parameterized Reports

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.