

# CSE302: Database Systems (Section No. 1) [Summer 2024]

## **Project Report**

Paris 2024 Olympic Database Management System

https://apex.oracle.com/pls/apex/r/supew117/paris-2024-olympic-database-management-system/

#### **Submitted by:**

Student ID	Student Name	<b>Contribution Percentage</b>
2019-3-60-117	Sumiaya Ahmed	100%

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

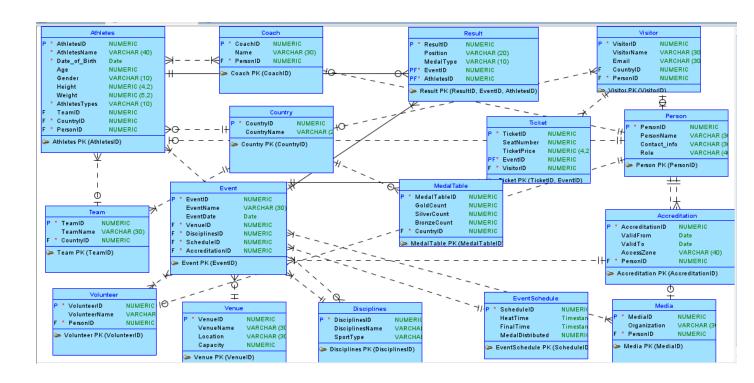


Figure 1: Logical data model

#### 2. Relational Data Model of the Project

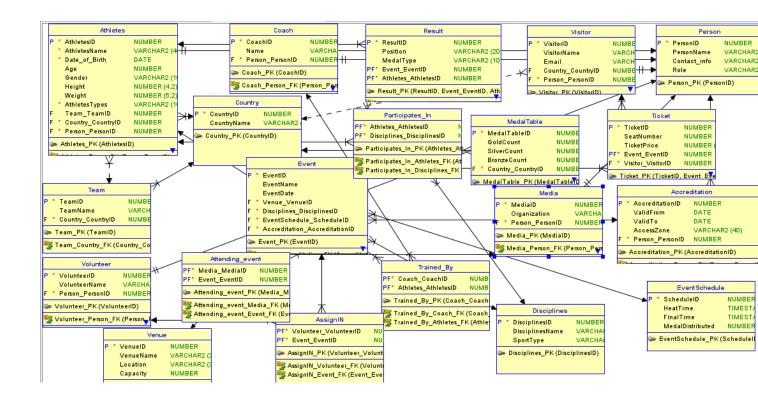


Figure 2: Relational Data model

### 3. Implementation Checklist

Description	Remarks
Project ID	
Workspace Name	
Workspace Email	sumaiyaahmedcse@gmail.com
Workspace Password	****
Authentication Type	Custom
Username and Password to Login	

write username ADMIN	****
MANAGER	****
OPERATOR	password CSE302
Uploaded and Displayed Images in Reports	yes
Implemented Page-wise Authorization	yes
Number of Reports with Forms	13
Number of Master-detail Forms	4
Number of Reports based on Queries,	2
Aggregate Queries	
Number of Parameterized Reports	3
Number of Graphs/Charts	7
Included any trigger/other feature which is	1. Trigger name: medaltable_update
not taught in class. If yes, please explain	Description: It automatically updates the
briefly.	values of 'Medaltable' table after inserting data
	in 'Result' table.
	2. Trigger name: trg_update_accreditation
	Description : It automatically updates the
	'Accreditation' table after inserting data on
	'Person' table.
	3. Designed homepage and login using html and
W	CSS.
Write the most unique feature/functionality	A least factoria of this application is the intuitive
in your application or the page of your	A key feature of this application is the intuitive
application that you are proud of. Explain	<b>navigation menu</b> with search functionality, enabling users to easily find and access various
briefly.	sections of the Olympic database. The
	homepage, designed with an engaging slider,
	showcases essential events and updates,
	enhancing user engagement.
	Additionally, login page is design using HTML
	and CSS, prioritizing user experience with its
	clean and professional design.

## 4. Reports with Forms

Report Page Number and Name	Form Page Number and Name Table	
Athlete Report (page 7)	Athlete Form (page 2)	Athletes
Event Report (page 84)	Event Form (page 9)	Event
Venue Report (page 13)	Venue Form (page 12)	Venue
Accreditation Report (page 10)	Accreditation Form (page 16)	Accreditation
Team Report (page 17)	Team Form (page 19)	Team
Media Report (page 85 )	Media Form (page 22)	Media
Volunteer Report (page 86)	Volunteer Form (page 26)	Volunteer
Descipline Report (page 30)	Descipline Form (page 29)	Discipline
Coach Report (page 87)	Coach Form (page 32)	Coach
Person Report (page 36)	Person Form (page 35)	Person
Visitor Report(page 88)	Visitor Form (page 38)	Visitor
Country Report (page 40)	Country Form (page 37)	Country
Event_Schedule_Report (page 82 )		EventSchedule

#### Screenshots of reports:

Figure 4.1(Athlete):

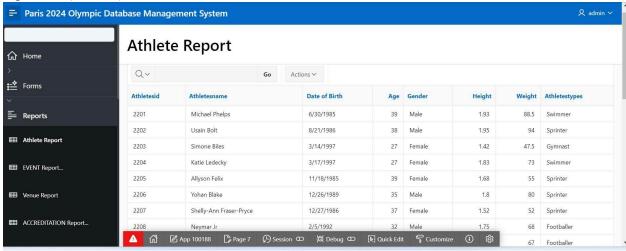


Figure 4.2(event):

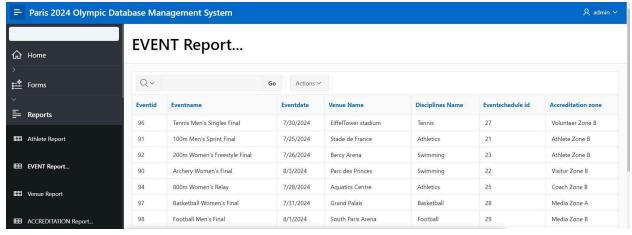


Figure 4.3(venue):

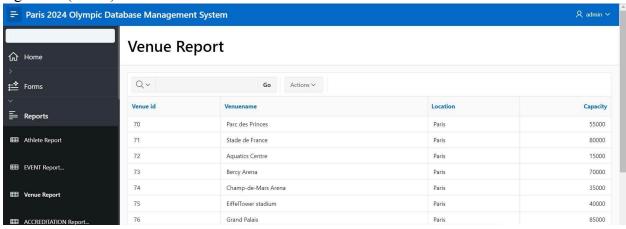


Figure 4.4(accreditation):

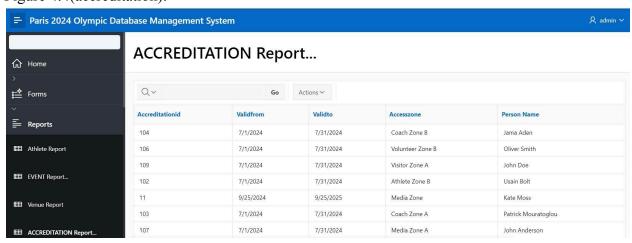


Figure 4.5(team):

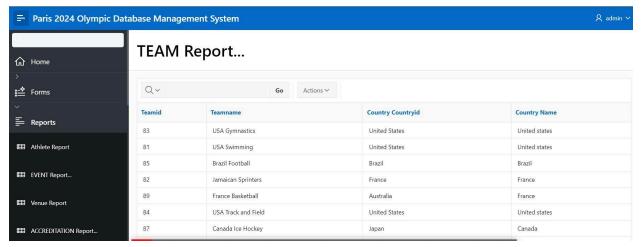


Figure 4.6(media):

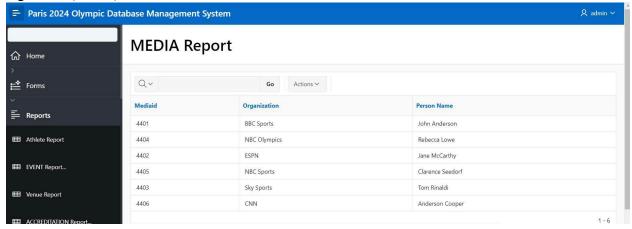


Figure 4.7(volunteer):

## **VOLUNTEER Report**

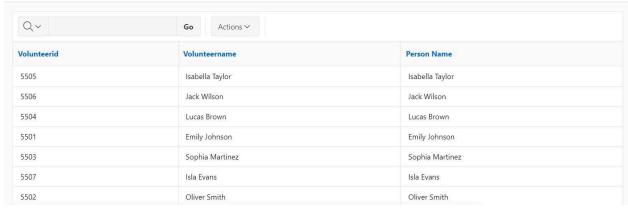


Figure 4.8(discipline):

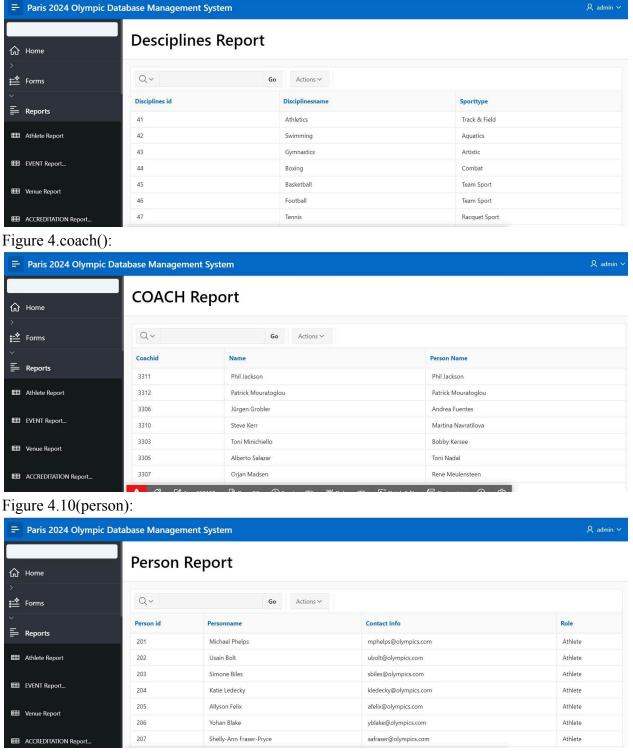
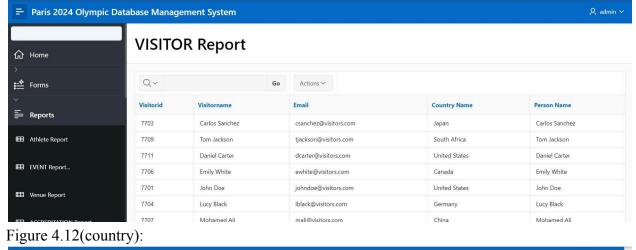


Figure 4.11(visitor):



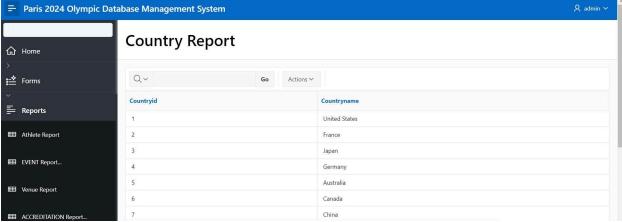
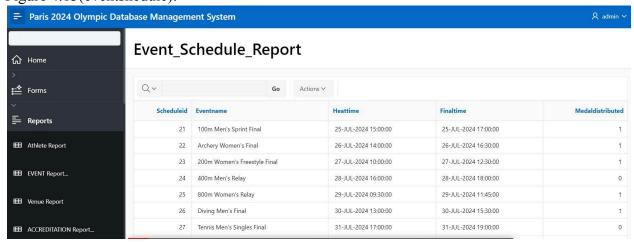


Figure 4.13(eventshedule):



#### **Screenshots of Forms:**

Figure 4.14(Athlete):

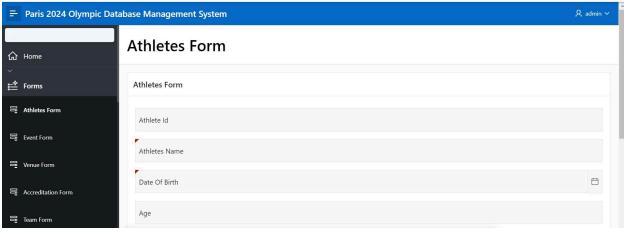


Figure 4.15(event):

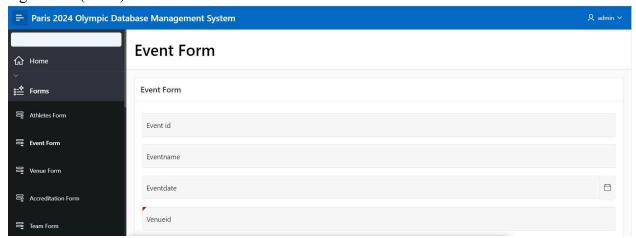


Figure 4.16(venue):

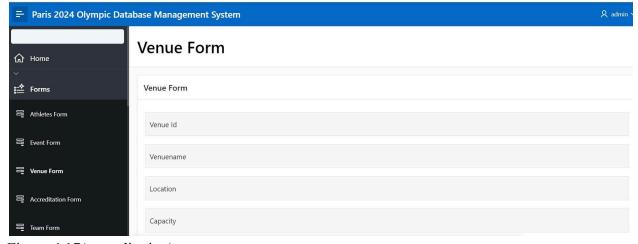


Figure 4.17(accreditation):

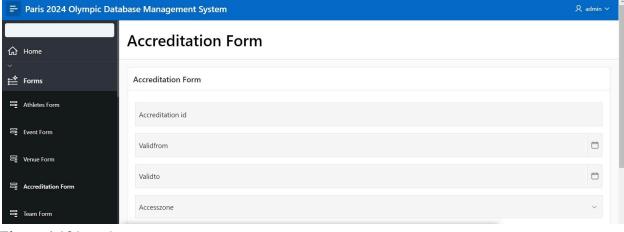


Figure 4.18(team):

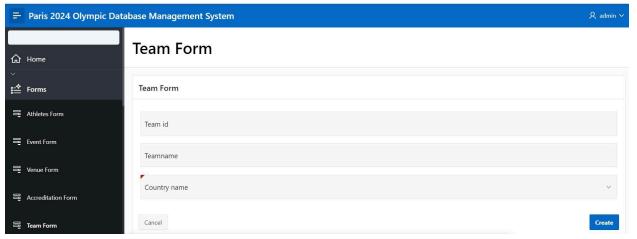


Figure 4.19(media):

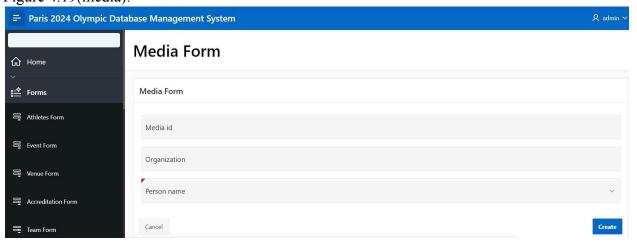


Figure 4.20(volunteer):

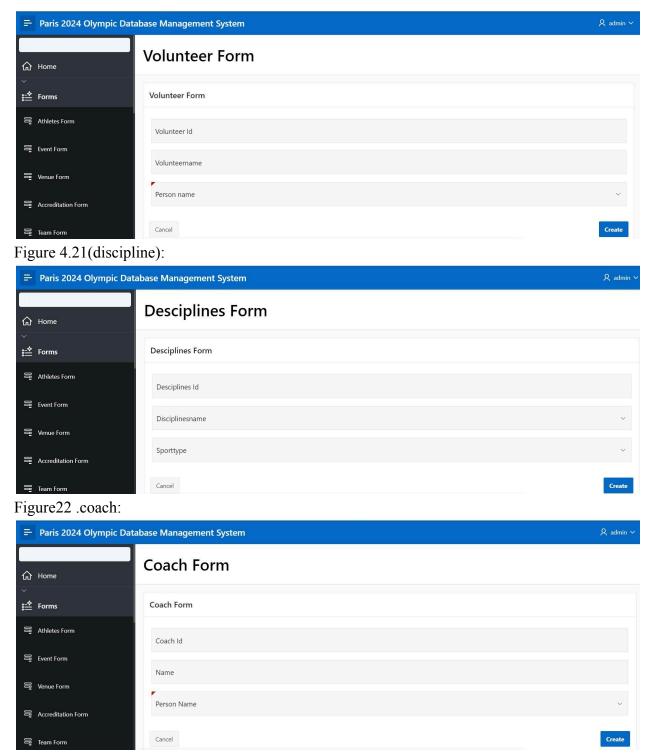


Figure 4.23(person):

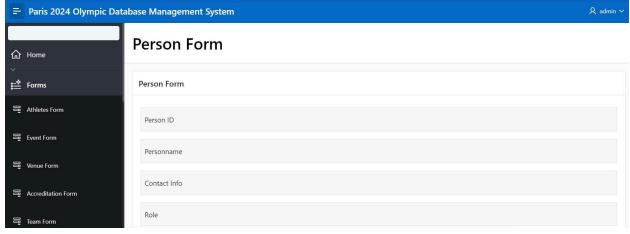


Figure 4.24(visitor):

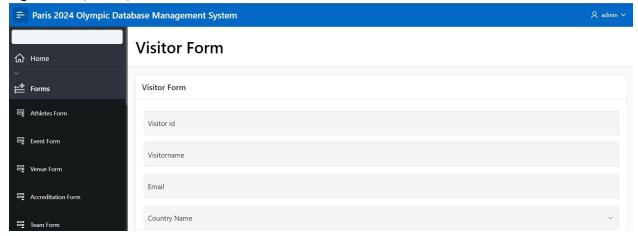
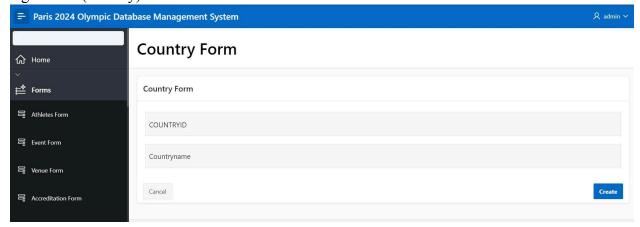


Figure 4.25(country):



#### 5. Master-Detail Form

Page Number and Name	Master Table (Parent)	Detail Table (Child)
Event_Result Page No- 3	Event	Result
Person_Accreditation Page No - 88	Person	Accreditation
Team_Athlets Page - 52	Team	Athletes
Venue_Event Page No - 55	Venue	Event

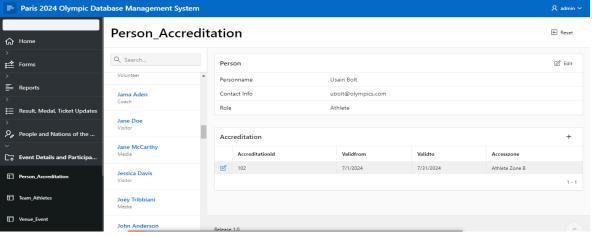


Figure 5.1: Person-wise Accreditation Information

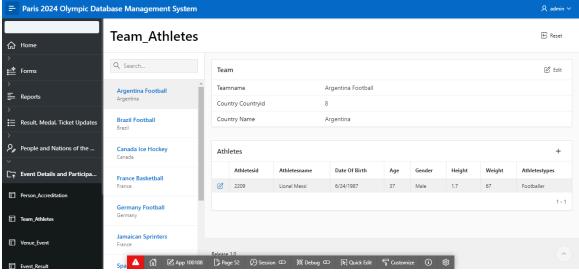


Figure 5.2: Team-wise Athletes Information

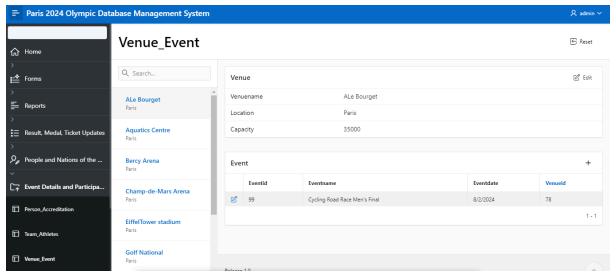


Figure 5.3: Venue-wise Event Information

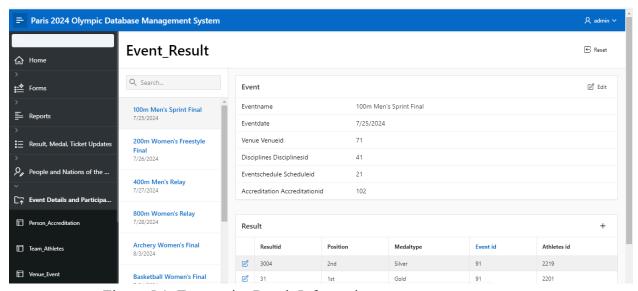


Figure 5.1: Event-wise Result Information

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

Page Number and Name	Query Type	Report description
Event attendance report	Multi-table and	This report provides insights into event
Page No -22	Aggregate both	attendance and revenue by counting
		tickets sold and summing ticket prices for
		each event. It ranks events by total
		visitors, helping to identify the most
		attended and profitable events.

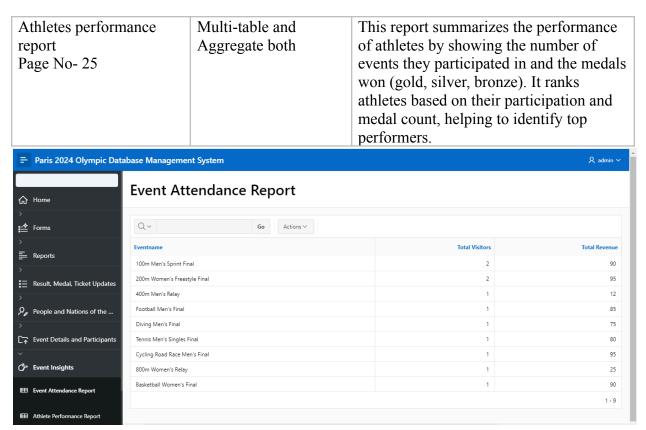


Figure 6.1: Event Attendance report using Query (Multitable and Aggregate)

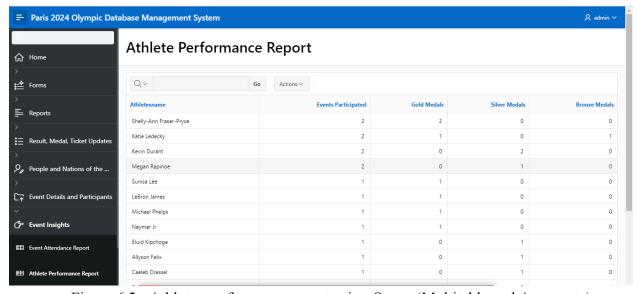


Figure 6.2 : Athletes performance report using Query (Multitable and Aggregate)

#### 7. Parameterized Reports

Page Number and Name	Given Input	Report description

P.Athletes Performance Report (Page 5)	AthleteID	This parameterized report shows the performance and information of the given
		athlete.
P.Person-Role	PersonID	This parameterized report shows the roles
Relationship (page 11)		of the given person.
P.Event and Results	EventID	This parameterized report shows the
Summary (page 8)		detailed information (including result)
		about the given event.

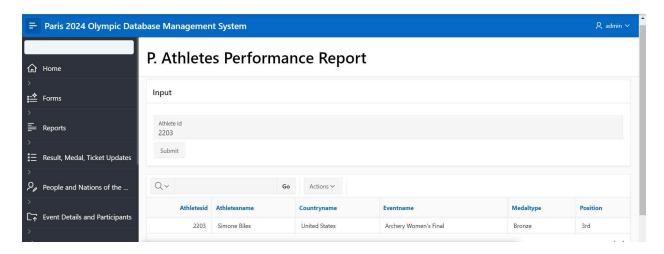


figure:7.1

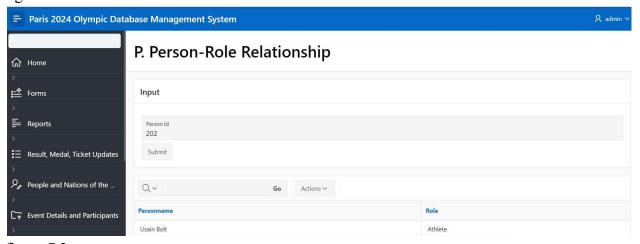


figure:7.2

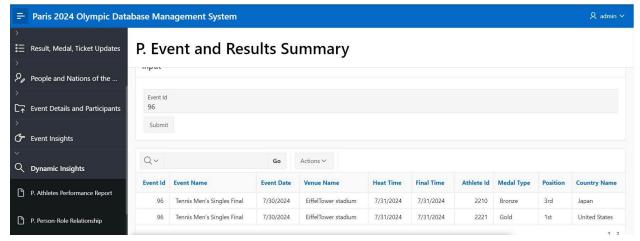


figure:7.3

## 8. Charts and Other Pages

Page Number and Name	Chart description	
athletes by Country	This chart highlights the distribution of athletes from different	
Page No- 66	countries by showing the number of athletes representing each nation.	
Events per Disciplines	This chart presents the distribution of events across different	
Page No- 67	disciplines in the Olympics. It shows the number of events associated with each discipline.	
Accreditations by	This chart displays the count of accreditations granted for each	
AccessZone	access zone in the Olympic Games.	
Page No- 70		
Volunteers by event	This chart shows the distribution of volunteers assigned to	
Page No- 71	different events at the Olympic Games. It counts the number of	
	volunteers assigned to each event and presents it in an organized	
	way.	
Medals distribution by	This chart shows the total number of gold, silver, and bronze	
country	medals won by each country at the Olympic Games.	
Page No- 63		
Page No- 63		

Medals by Athletes Page No- 68	This chart provides an overview of the total number of medals won by individual athletes. It groups the results by athlete name and counts the total medals each athlete has won, offering a comparative analysis of medal performance.
Countries with the most medals Page No- 72	This chart displays the total number of medals (gold, silver, and bronze) earned by each country, by summing the respective medal counts from the Medal Table.

## **Athletes by Country**

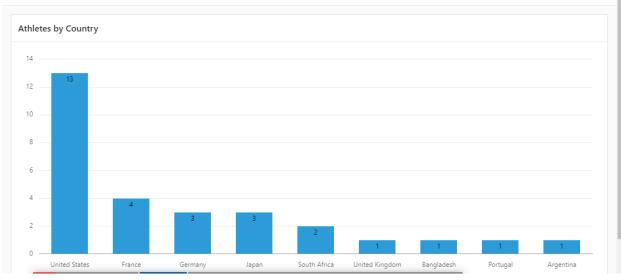


Figure 8.1: Athletes by Country

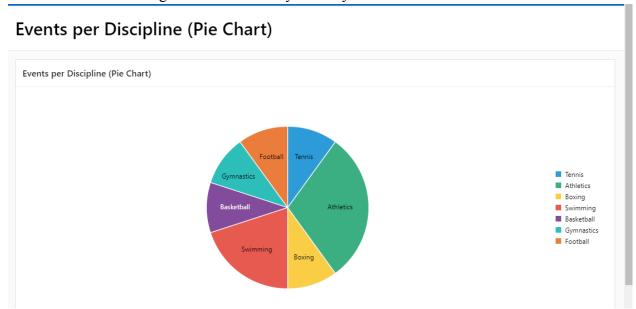


Figure 8.2: Events per discipline

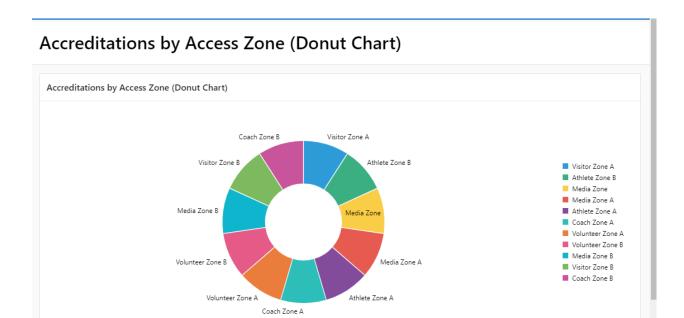


Figure 8.3: Accreditation By AccessZone

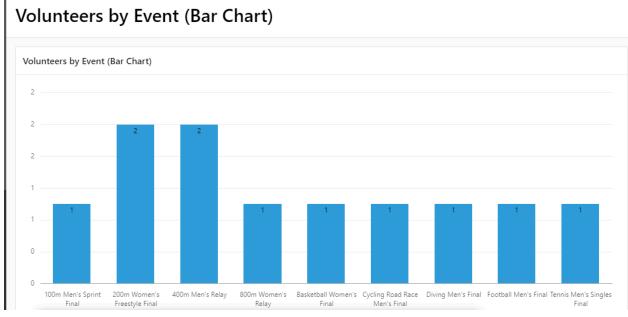


Figure 8.4: Volunteer by event

## Medals Distribution by Country

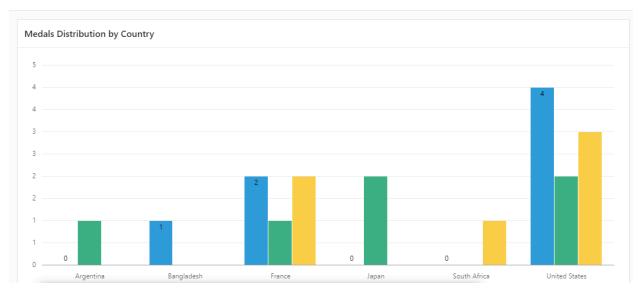


Figure 8.5: Medal Distribution by Country

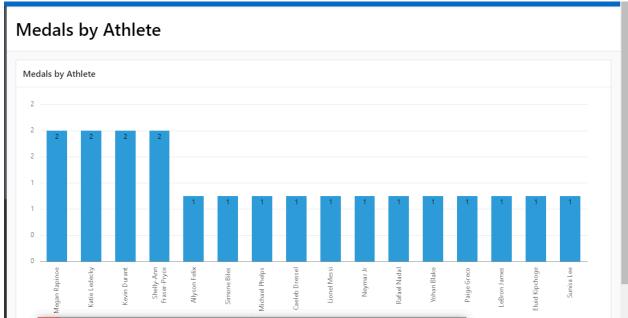


Figure 8.6: Medal Athletes

#### Countries with the Most Medals

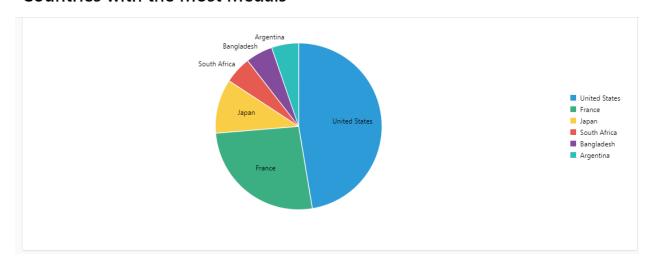


Figure 8.7: Countries with the most medals

## 9. Authorization and User Role Assignment

#### **User Role Assignment**

User name	Password	Role
ADMIN	CSE302	Administrator
MANAGER	CSE302	Contributor
OPERATOR	CSE302	Reader

#### Page-wise Authorization Information

Page number and name	Authorization Level
Home	Reader
Page - 1	
Forms	Contributor
Reports	Reader
Master Detail(Event details and participants) Page No- 43, 45, 47	Reader
Reports based on Multi Table and aggregate query (Event Insights) Page No- 21, 25	Reader
Parameterized Reports(Dynamic Insights) Page No- 5,11,8	Reader
Olympic Data analysis(Charts) Page No- 66, 67,69, 70, 63, 68,72	Reader

Administration	Administrator
Page No-10000	

Use more rows if necessary.

## 10. Concluding Remarks

Working on this project has been a profoundly enriching experience. From the initial stages of planning to the final implementation, We faced various challenges that pushed us to grow both technically and personally. The process of designing the database and creating reports tested my problem-solving skills and deepened our understanding of database management and data analysis.