



## American International University- Bangladesh

Department of Computer Science and Engineering  
Dhaka, Bangladesh

### 00892 ADVANCE DATABASE MANAGEMENT SYSTEM PROJECT Report

## E-Sports Management System

### Group 5

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Normalization	30%	20%	20%	30%	100(%)
SQL Query	30%	20%	20%	30%	100(%)
Relational Algebra	30%	15%	25%	30%	100(%)
Report Writing	15%	30%	25%	30%	100(%)
Report Writing	30%	20%	20%	30%	100(%)
Report Writing	1	2	3	4	5

## Contents

<b>1 Introduction</b>	<b>1</b>	
1.1 Project Proposal .....	1	
1.1.1 Purposes .....	2	
1.1.2 Methodology .....	2	
1.2 Project Scenario .....	3	
<b>2 Diagrams</b>	<b>4</b>	
2.1 ER Diagram .....	4	
2.2 Class Diagram .....	5	
2.3 Use Case Diagram .....	6	
2.4 Activity Diagram .....	7	
<b>3 User Interface</b>	<b>8</b>	
3.1 Technologies Used .....	8	

3.1.1	Home Page .....	8
3.1.2	About Page .....	8
3.1.3	Login Page .....	9
3.1.4	Profile Page .....	9
3.1.5	Tournament Page .....	9
3.1.6	Team Page .....	10
3.1.7	Game Page .....	10
<b>4</b>	<b>NF and Schema</b>	<b>11</b>
4.1	Manage branch .....	11
4.1.1	(Admin → Manager) .....	11
4.1.2	(Manager → Finance) .....	12
4.1.3	(Manager → Teams).....	13
4.1.4	(SocialMedia → ContentCreator) .....	14
4.2	Pay branch .....	16
4.2.1	(Finance → SocialMedia) .....	16
4.2.2	(Finance → organization) .....	17
4.3	Formed branch .....	18
4.3.1	(Teams → Player) .....	18
4.4	Has branch .....	20
4.4.1	(Record → Tournament) .....	20
4.4.2	(Tournament → Game) .....	21
4.5	Participate branch .....	22
4.5.1	(Teams → Game) .....	22
4.6	Host branch .....	23
4.6.1	(Organizer → Tournament) .....	23
4.7	Sponsor branch .....	24
4.7.1	(Companies → Organization ) .....	24
4.7.2	(Companies → Teams ) .....	25
4.8	Temporary Tables .....	26

4.9	Final Tables .....	28
4.10	Schema Diagram .....	30
<b>5</b>	<b>SQL Queries</b>	<b>31</b>
5.1	User Creation .....	31
5.2	Table Creation .....	32
5.3	Sequence Creation .....	45
5.4	Index for Table .....	46
5.5	Alter Table .....	47
5.6	Data Insertion .....	48
5.7	Single Row Functions .....	59
5.8	Group Functions .....	60
5.9	SubQuery .....	61
5.10	Join Queries .....	63
5.11	Creating View .....	65
5.12	Synonyms .....	66
<b>6</b>	<b>Relational Algebra</b>	<b>67</b>
<b>7</b>	<b>Conclusion</b>	<b>68</b>



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# Introduction

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Esports Management System is an innovative platform that will revolutionize the management and organization of esports teams, participants, tournaments, and sponsors. This system seeks to provide users with an efficient and user-friendly way to search for their preferred professional esports players.

A user-friendly interface is at the core of the Esports Management System, allowing users to seamlessly navigate and explore the realm of professional esports. With only a few clicks, users can search for potential professional athletes and teams, as well as access valuable information such as their winning records and accomplishments. This enables fans and enthusiasts to remain up-to-date on their preferred players and teams, nurturing a stronger connection within the esports community.

The Esports Management System's ability to facilitate sponsorships is a crucial feature. Numerous organizations and businesses can engage in sponsorship activities, whether for the purpose of supporting tournaments or individual athletes. The system serves as a centralized repository where the information and details of these sponsors can be efficiently stored and managed. This facilitates the sponsorship process and ensures that sponsors and the esports industry collaborate effectively.

There are specialized administrators within the Esports Management System who play crucial roles in managing and enhancing the overall experience. The social media manager is among these supervisors; he or she supervises the organization's online presence and engagement on various social media platforms. In addition, the content creator/VFX/GFX team assures the creation of visually stunning and captivating content that enhances the overall esports experience.

Dynamic features and functionalities make the Esports Management System an indispensable instrument for the esports industry. It makes it easier for fans to discover and connect with professional esports players, allowing them to remain informed and engaged. It enhances collaboration between organizations and the esports community by providing a centralized platform for sponsorship management. In addition, the system enables administrators to enhance the organization's online presence and develop visually appealing content, ensuring that all stakeholders have an engaging experience.

In the following sections, we will delve deeper into the features, functionalities, and innovative aspects of the Esports Management System, demonstrating its potential to revolutionize the management and celebration of esports teams, players, tournaments, and sponsors.

## 1.1 Project Proposal

This proposal for the development and implementation of an Esports Management System is presented with pleasure. This revolutionary platform seeks to transform the management and organization of esports teams, players, tournaments, and sponsors. The Esports Management System will improve the user experience, encourage community engagement,

and expedite operations within the esports industry by leveraging advanced technology and comprehensive functionalities.

### **1.1.1 Purposes**

Create an intuitive web-based platform that serves as the central hub for esports administration, catering to the requirements of teams, players, tournament organizers, and sponsors.

Implement a sophisticated matching algorithm to facilitate the search and discovery of favored professional esports players, thereby enhancing the fan experience and fostering esports community connections.

Provide efficient sponsorship administration capabilities, enabling organizations and businesses to support tournaments or individual athletes through sponsorship activities.

Enhance the organization's online presence by supervising social media platforms and having the content creator/VFX/GFX team produce visually spectacular and engaging content.

### **1.1.2 Methodology**

#### **System Development:**

Conduct exhaustive investigation on the necessary requirements and features of an effective Esports Management System.

Utilize industry-standard programming languages and technologies to create a scalable and secure web-based platform.

Implement a user-friendly interface with intuitive navigation in order to provide a seamless and enjoyable user experience.

#### **Matching Algorithm**

Collaboration with data scientists and psychologists to create a matching algorithm based on personality traits, values, and beliefs.

Integrate the matching algorithm into the system to recommend professional esports players compatible with the user's preferences.

#### **Sponsorship Management**

Create an all-encompassing sponsorship management module to facilitate collaborations between organizations and the esports industry.

Provide a centralized repository for sponsor information to facilitate communication and sponsorship efficiency.

#### **Online Presence Enhancement**

Appoint a social media manager to supervise the organization's online presence and interact with the esports community.

Appoint a social media manager to supervise the organization's online presence and interact with the esports community.

## 1.2 Project Scenario

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Imagine an eSports organization called "eSports FTW" that manages various teams and tournaments in the gaming industry. The organization is led by an Admin who oversees the operations. The Admin entity contains attributes such as email, picture, password, name, and a unique ID.

Under the Admin, there are multiple Managers responsible for different departments. Each Manager has attributes including hire date, picture, salary, email, name, department ID, and a unique ID. One Manager specifically manages the Finance department, ensuring financial stability and handling the accounts for the organization. The Finance entity consists of attributes such as a unique ID, account number, and balance.

In addition to managing the finances, each Manager is in charge of a specific team. The Teams entity includes details such as the team's established date, country, name, team ID, team icon, winning numbers, and total prize money. Each team has a unique Manager assigned to it, ensuring proper coordination and organization. The Manager entity is linked to the Teams entity through the Manager ID attribute.

Within each team, there are multiple Players who represent the organization in various games. The Players entity contains attributes such as name, player ID, picture, salary, winning prize money, total hours played, phone number, and address (including country, city, zip code, and road number). Additionally, players have links to their social media profiles on platforms like Facebook, Instagram, Twitter, and YouTube.

The organization hosts tournaments, bringing together teams from different games. The Tournament entity consists of attributes such as tournament ID, name, prize pool, starting date, and ending date. Each tournament features various games such as Valorant, Mobile Legends: Bang Bang (MLBB), and Rainbow Six Siege. The Game entity contains attributes like name, release date, genre, game picture, publisher, platform, game ID, and prize pool. Each tournament may have different games associated with it, creating diverse competitive environments.

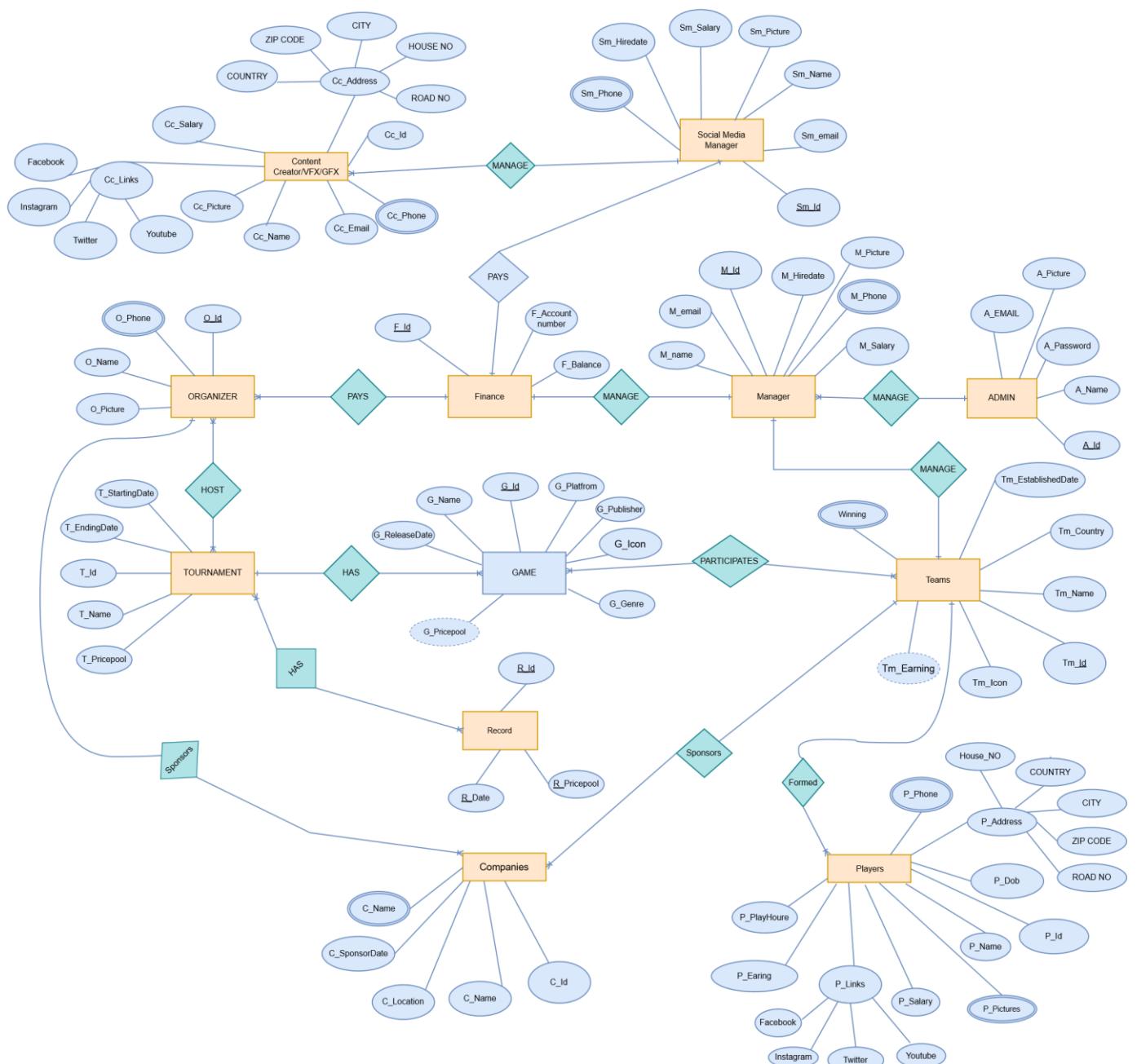
To support the teams and tournaments financially, eSports FTW seeks sponsorships from different companies. The Companies entity includes attributes such as name, company ID, location, sponsor date, and phone number. Multiple companies can sponsor both teams and tournaments, forming a many-to-many relationship between the Companies, Teams, and Tournament entities.

Additionally, eSports FTW employs a Social Media Manager responsible for managing the organization's online presence. The Social Media Manager entity contains attributes such as name, picture, email, manager ID, hire date, salary, phone number, and social media links (Facebook, Instagram, Twitter, YouTube). The Social Media Manager oversees the VFX/GFX and Content Creator teams, ensuring engaging content creation and visual effects. The

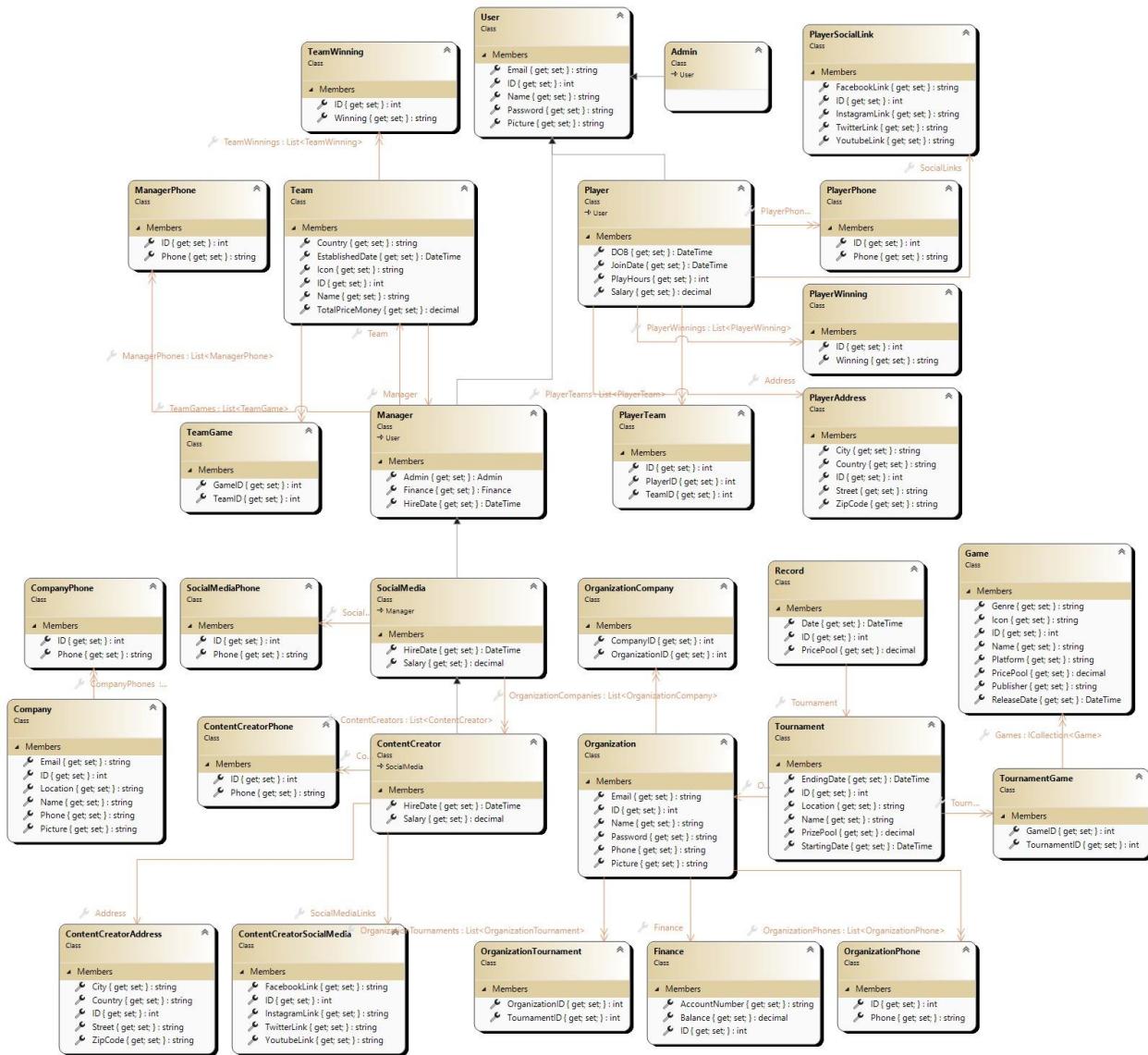
VFX/GFX and Content Creator entities include attributes like name, picture, VFX/GFX ID, email, phone number, salary, and address (country, city, zip code, and road number).

# Diagrams

## 2.1 ER Diagram

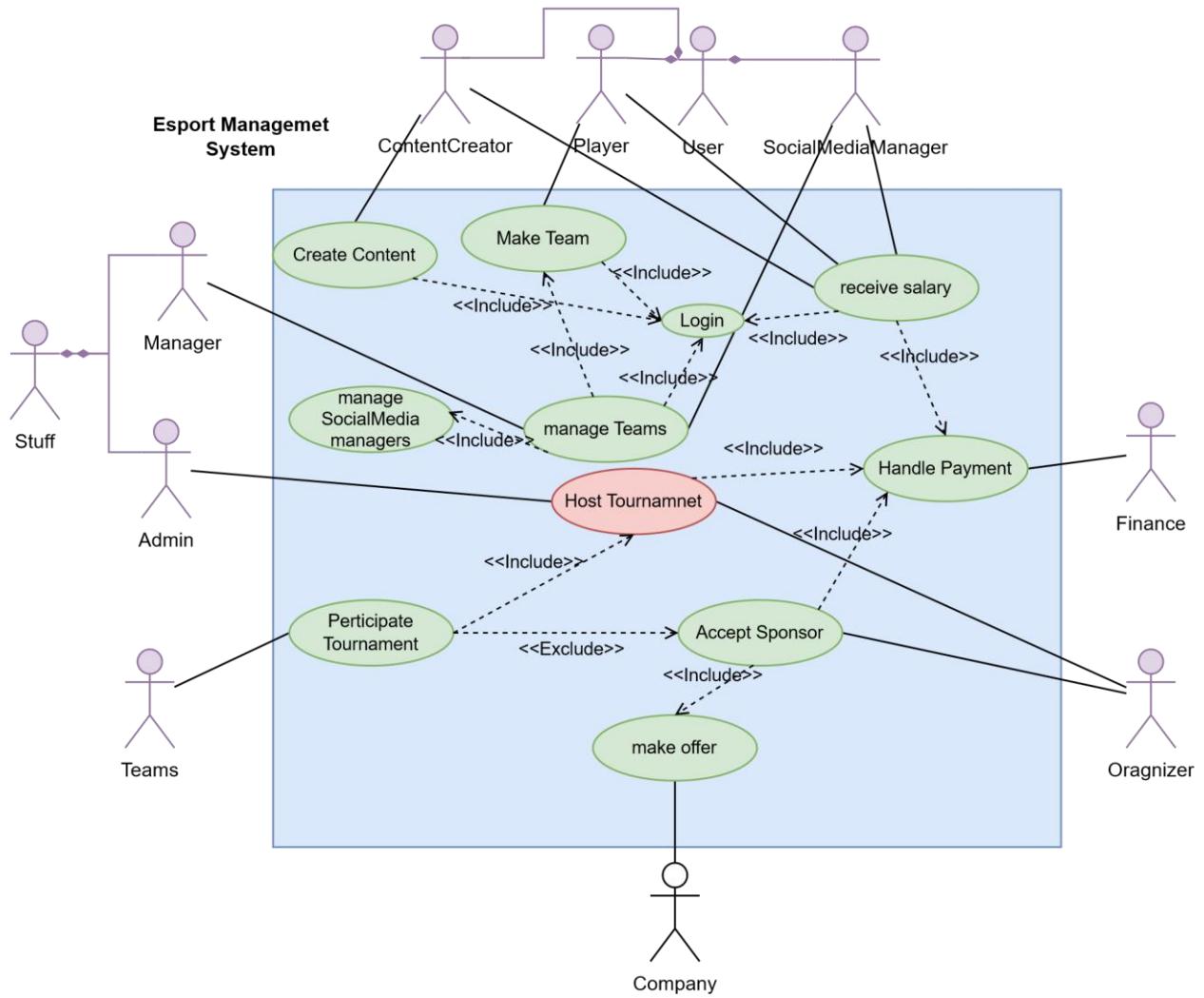


## 2.2 Class Diagram

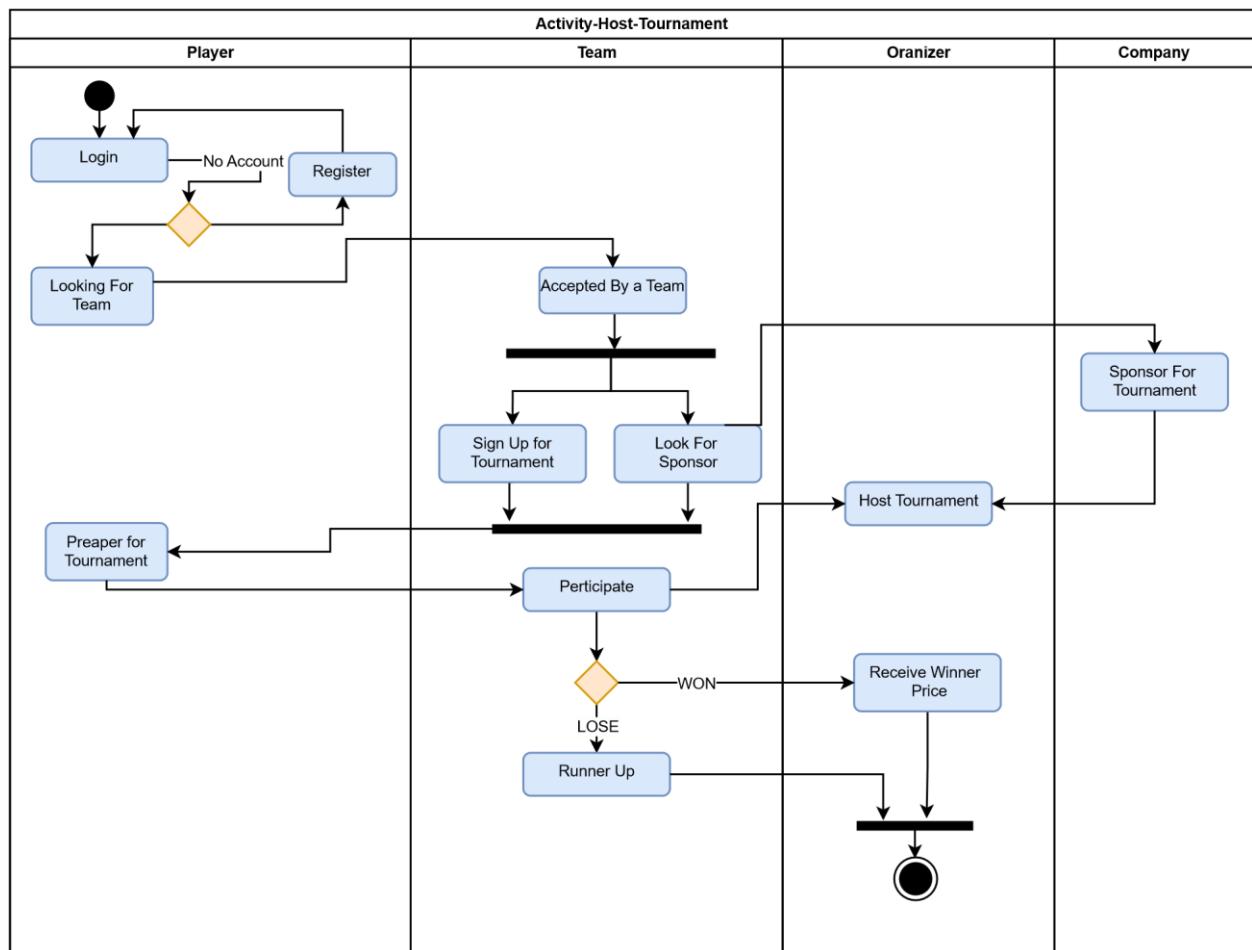


Class Diagram

## 2.3 Use Case Diagram



## 2.4 Activity Diagram



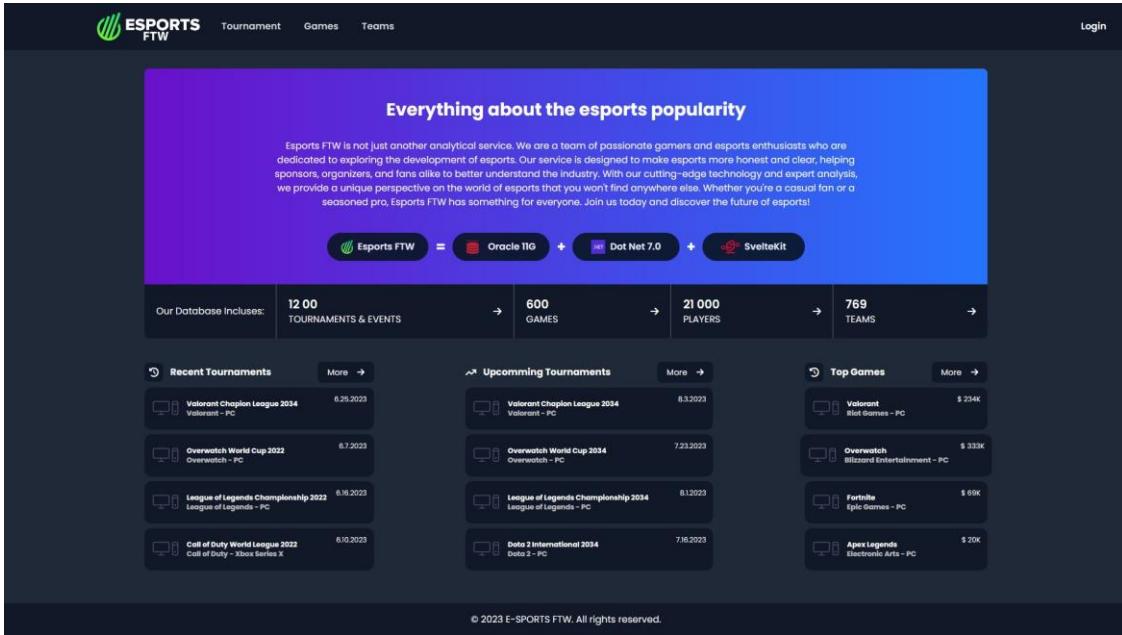
## User Interface

### 3.1 Technologies Used

SvelteKit

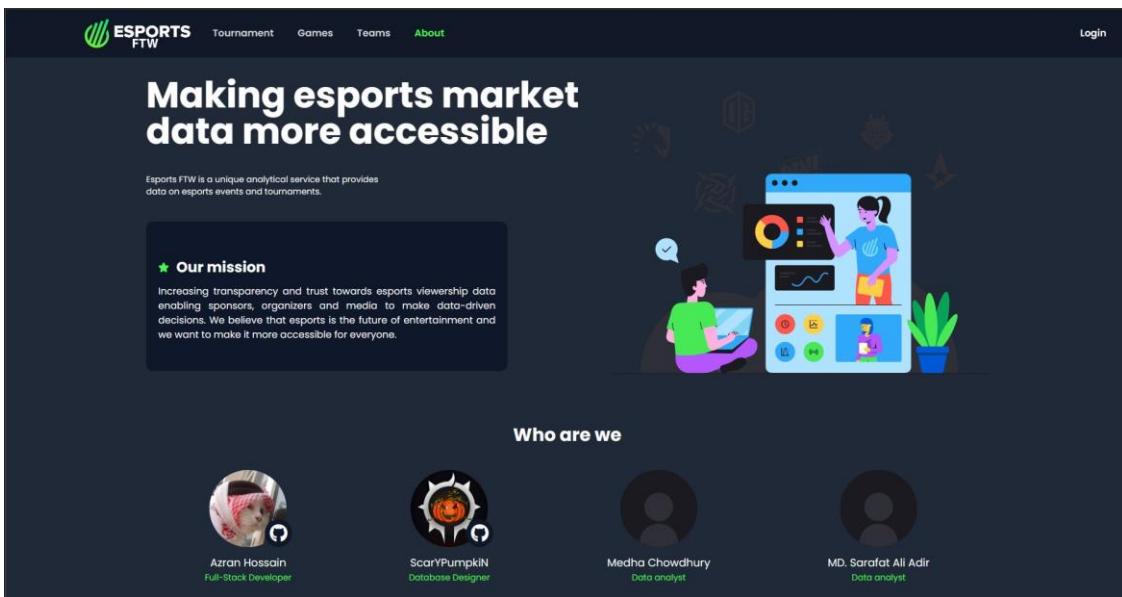
Tailwind CSS

### 3.1.1 Home Page



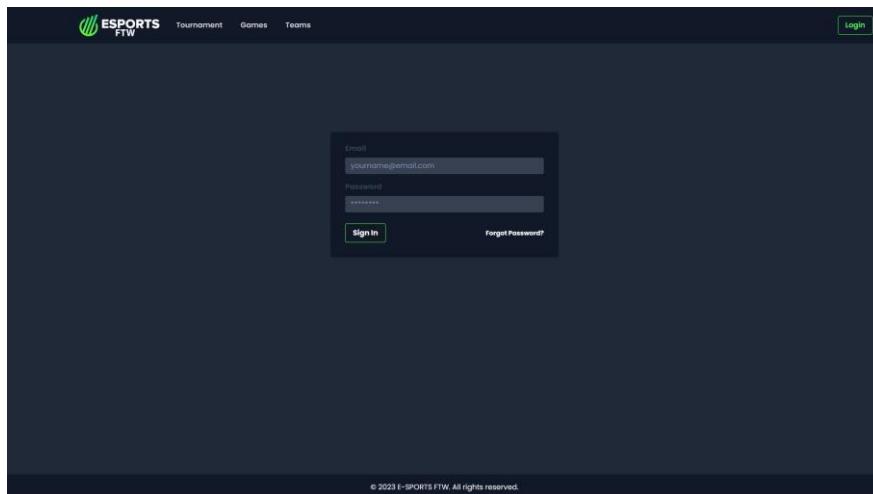
The screenshot shows the homepage of Esports FTW. At the top, there's a navigation bar with the logo 'ESPORTS FTW' on the left, followed by links for 'Tournament', 'Games', 'Teams', and 'Login'. Below the navigation is a purple header section with the text 'Everything about the esports popularity'. A subtext explains the service's mission: 'Esports FTW is not just another analytical service. We are a team of passionate gamers and esports enthusiasts who are dedicated to exploring the development of esports. Our service is designed to make esports more honest and clear, helping sponsors, organizers, and fans alike to better understand the industry. With our cutting-edge technology and expert analysis, we provide a unique perspective on the world of esports that you won't find anywhere else. Whether you're a casual fan or a seasoned pro, Esports FTW has something for everyone. Join us today and discover the future of esports!'. Below this, there's a footer with the text 'Our Database Includes: 12 00 TOURNAMENTS & EVENTS → 600 GAMES → 21 000 PLAYERS → 769 TEAMS →'. Underneath are three sections: 'Recent Tournaments', 'Upcoming Tournaments', and 'Top Games', each listing several esports events and games with their dates and platforms.

### 3.1.2 About Page

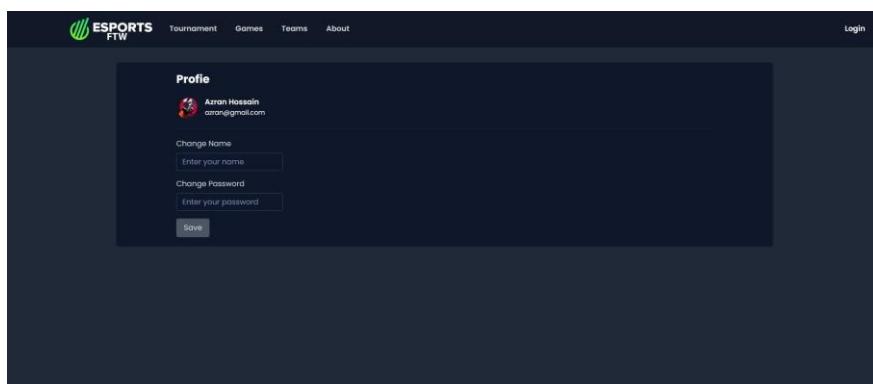


The screenshot shows the 'About' page of Esports FTW. The top navigation bar includes the 'About' link. The main title is 'Making esports market data more accessible'. Below the title, a subtext states: 'Esports FTW is a unique analytical service that provides data on esports events and tournaments.' To the right, there's an illustration of two people interacting with a large digital screen displaying various data visualizations like charts and graphs. A dark callout box on the left contains the heading '★ Our mission' and a paragraph about increasing transparency and trust towards esports viewership data. At the bottom, there's a 'Who are we' section featuring four team members with their names and roles: Azran Hossain (Full-Stack Developer), ScarYpumpkin (Database Designer), Medha Chowdhury (Data analyst), and MD. Sarafat Ali Adir (Data analyst). Each member has a small profile picture and a dark circular placeholder icon next to their name.

### 3.1.3 Login Page



### 3.1.4 Profile Page



### 3.1.5 Tournament Page

A screenshot of the E-Sports FTW tournament statistics page. The page has a dark background with a green header bar at the top. The main content area is titled 'Esports Events Statistics' and displays a table of tournaments. The table has columns for 'Name', 'Game', 'Prize Pool', 'Platform', and 'Event Date'. The data in the table is as follows:

Name	Game	Prize Pool	Platform	Event Date
Tournament 1	Valorant	\$1000	PC	2022-01-01
Tournament 2	League of Legends	\$500	PC	2022-02-14
Tournament 3	DotA 2	\$2000	PC	2022-03-17
Tournament 4	Overwatch	\$750	PC	2022-04-20
Tournament 5	Fortnite	\$1500	PC	2022-05-23

At the bottom of the page, there is a copyright notice: '© 2023 E-SPORTS FTW. All rights reserved.' and a link: 'https://esports-ftw.com/tournament'

### 3.1.6 Team Page

The screenshot shows a dark-themed web application interface for 'Esports Events Statistics'. At the top, there's a navigation bar with 'ESPORTS FTW' logo, 'Tournament', 'Games', and 'Teams' buttons. A 'Login' button is on the far right. Below the navigation is a search bar labeled 'Search tournament by name'. The main content area is titled 'Esports Events Statistics' and contains a table with the following data:

Name	Game	Prize Pool	Total Game	Location
Team 1	Valorant	\$1000	10	NYC
Team 2	Overwatch	\$2000	10	VET
Team 3	League of Legends	\$3000	10	LA
Team 4	Dota 2	\$4000	10	NYC
Team 5	Counter-Strike: Global Offensive	\$5000	10	NYC

At the bottom left is a dropdown menu '5 items'. At the bottom right is a pagination indicator '1-5 / 10'.

### 3.1.7 Game Page

The screenshot shows a dark-themed web application interface for 'Top esports games in 2023 by prize money'. At the top, there's a navigation bar with 'ESPORTS FTW' logo, 'Tournament', 'Games', and 'Teams' buttons. A 'Login' button is on the far right. Below the navigation is a search bar labeled 'Search game by name'. The main content area is titled 'Top esports games in 2023 by prize money' and contains a table with the following data:

Name	Type	Prize Pool	Platform	Total Tournament
Valorant	FFP	\$1000	PC	10
League of Legends	MOBA	\$5000	PC	20
Fortnite	Battle Royale	\$2000	PC	15
Overwatch	FFP	\$3000	PC	12
Dota 2	MOBA	\$8000	PC	25

At the bottom left is a dropdown menu '5 items'. At the bottom right is a pagination indicator '1-5 / 10'.

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## Normalization and Schema Design

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### 4.1 Manage branch

---

#### 4.1.1 (Admin → Manager)

##### UNF

(Admin ID, Admin Name, Admin Email, Admin Password, Admin Picture,  
Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager  
Hiredate, Manager Phone)

## 1NF

Phone is multi-valued attribute.

(Admin ID, Admin Name, Admin Email, Admin Password, Admin Picture,  
Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture,  
\_\_\_\_\_  
Manager Hiredate, Manager Phone)

## 2NF

Admin ID, Admin Name, Admin Email, Admin Password, Admin Picture

Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture,  
Manager Hiredate, Manager Phone

## 3NF

No transitive dependencies found. Same as 2NF

## Table after Normalization

**Manager** (Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate, **Admin ID**)

**Admin** (Admin ID, Admin Name, Admin Email, Admin Password, Admin Picture)

**Manager Phone** (Mp ID, **Manager ID**, Manager Phone)  
\_\_\_\_\_

## UNF

### **4.1.2 (Manager → Finance)**

(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager

Hiredate, Manager Phone, Finance ID, Finance Account Number, Finance Balance)

## 1NF

Phone is multi-valued attribute.

(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture,

Manager Hiredate, Manager Phone, Finance ID, Finance Account Number, Finance Balance)

## 2NF

**Manager**(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate, Manager Phone)

**Finance**(Finance ID, Finance Account Number, Finance Balance)

## 3NF

No transitive dependency found. Same as 2NF.

### Table after Normalization

**Manager**(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate)

**Finance**(Finance ID, Finance Account Number, Finance Balance, **Manager ID**)

**Manager Phone** (Mp ID, **Manager ID**, Manager Phone)

### **4.1.3 (Manager → Teams)**

(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager

Hiredate, Manager Phone, Team ID, Team Name, Team Icon, Team established date, Team country, Total Price Money, Team Winnig )

## 1NF

Winnig & Phone are multi-valued attribute.

## UNF

(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture,  
 Manager Hiredate, Manager Phone, Team ID, Team Name, Team Icon, Team established date, Team country, Team Total Price Money, Team Winnig)

## 2NF

**Manager**(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate, Manager Phone)

**Team**(Team ID, Team Name, Team Icon, Team established date, Total Price Money, Team country)

## 3NF

No transitive dependency found. Same as 2NF.

### Table after Normalization

**Manager**(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate)

**Team**(Team ID, Team Name, Team Icon, Team established date, Team country, Total Price Money, Manager ID)

**Team Winnig**(Tw ID, Team ID, Team Winnig)

**Manager Phone** (Mp ID, Manager ID, Manager Phone)

### **4.1.4 (SocialMedia → ContentCreator)**

(SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Phone, SocialMedia Hiredate, SocialMedia Salary, ContentCreatorID, ContentCreator Name, ContentCreator Email, ContentCreator Password, ContentCreator Picture, ContentCreator Phone, ContentCreator Hiredate, ContentCreator Salary, ContentCreator Facebook Link, ContentCreator Twitter Link, ContentCreator Instagram Link, ContentCreator Youtube Link, ContentCreator Country, ContentCreator City, ContentCreator Street, ContentCreator Zip Code)

## 1NF

Phone is multi-valued attribute.

(SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Phone, SocialMedia Hiredate, SocialMedia Salary,

## UNF

**ContentCreator** (ContentCreatorID, ContentCreator Name, ContentCreator \_Email, ContentCreator Password, ContentCreator \_Picture, ContentCreator Phone , ContentCreator Hiredate , ContentCreator Salary, ContentCreator \_Facebook Link, ContentCreator Twitter Link, ContentCreator Instagram Link, ContentCreator Youtube Link , ContentCreator Country, ContentCreator City, ContentCreator Street, ContentCreator Zip Code)

## 2NF

**SocialMedia** (SocialMedia\_ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Phone , SocialMedia Hiredate , SocialMediaSalary)

**ContentCreator** (ContentCreator\_ID, ContentCreator Name, ContentCreatorEmail, ContentCreator \_ Password, ContentCreator \_ Picture, ContentCreator Phone , ContentCreator Hiredate , ContentCreator Salary, ContentCreator \_ Facebook Link, ContentCreator Twitter \_Link, ContentCreator Instagram Link, ContentCreator Youtube Link , ContentCreator Country, ContentCreator City, ContentCreator Street, ContentCreator Zip Code)

## 3NF

**SocialMedia** (SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture , SocialMedia Hiredate , SocialMedia Salary)

**ContentCreator** (ContentCreator\_ID, ContentCreator Name, ContentCreator Email, ContentCreator \_ Password, ContentCreator Picture , ContentCreator Hiredate , ContentCreator Salary)

**ContentCreator SocialMedia** (ContentCreator\_ID, SocialMedia\_ID , ContentCreator Facebook \_ Link, ContentCreator Twitter Link, ContentCreator \_ Instagram Link, ContentCreator Youtube Link)

**ContentCreator Address** (ContentCreator\_ID, ContentCreator Country, ContentCreator City, ContentCreator Street, ContentCreator Zip Code)

## Table after Normalization

**SocialMedia** (SocialMedia\_ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture , SocialMedia Hiredate , SocialMedia Salary)

**ContentCreator** (ContentCreator\_ID, ContentCreator Name, ContentCreator \_Email, ContentCreator \_Password, ContentCreator Picture , ContentCreator Hiredate , ContentCreator Salary)

**ContentCreator SocialMedia** (Ccs\_ID,**ContentCreator\_ID** , ContentCreator Facebook Link, ContentCreator Twitter Link, ContentCreator Instagram Link, ContentCreator Youtube Link)

**ContentCreator Address** (Cca\_ID,**ContentCreator\_ID**, ContentCreator Country, ContentCreator \_City, ContentCreator Street, ContentCreator Zip Code)

**ContentCreator Phone** (Ccp ID,**ContentCreator\_ID**, ContentCreator Phone)

**SocialMedia Phone** (Smp ID,**SocialMedia\_ID**, SocialMedia Phone)

**ContentCreator SocialMedia Phone** (Ccp ID,**ContentCreator\_ID**, ContentCreator Phone)

---

## 4.2 Pay branch

---

### 4.2.1 (Finance → SocialMedia)

#### UNF

(Finance ID, Finance Account Number, Finance Balance,  
SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Phone , SocialMedia Hiredate , SocialMedia Salary)

#### 1NF

Phone is multi-valued attribute.

(Finance ID, Finance AccountNumber, Finance Balance,  
SocialMedia ID, SocialMediaName, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Phone , SocialMedia Hiredate , SocialMedia Salary)

#### 2NF

**Finance**(Finance ID, Finance Account Number, Finance Balance)

**SocialMedia**(SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Phone , SocialMedia Hiredate , SocialMedia Salary)

#### 3NF

No transitive dependency found.Same as 2NF.

### Table after Normalization

**Finance**(Finance ID, Finance Account Number, Finance Balance)

**SocialMedia**(SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture , SocialMedia Hiredate , SocialMedia Salary, **Finance ID**)

**SocialMedia Phone** (Smp ID, **SocialMedia ID**,SocialMedia Phone)

### 4.2.2 (Finance → organization)

#### UNF

(Finance ID, Finance Account \_Number, Finance Balance,  
Organization-ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization Phone)

#### 1NF

Phone is multi-valued attribute.

(Finance ID, Finance Account Number, Finance Balance,  
Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization Phone)

## 2NF

**Finance**(Finance ID, Finance Account Number, Finance Balance)

**Organization**(Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization Phone)

## 3NF

No transitive dependency found. Same as 2NF.

## Table after Normalization

**Finance**(Finance ID, Finance Account Number, Finance Balance)

**Organization**(Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization Phone, **Finance ID**) **Organization Phone** (Op ID, **Organization ID**, Organization Phone)

## 4.3 Formed branch

### 4.3.1 (Teams → Player)

## UNF

(Team ID, Team Name, Team Icon, Team established date, Team country, Total Earning, Team Winnig, Player ID, Player Name, Player Email, Player Password, Player Picture, Player JoinDate, Player Phone, Player Salary, Player Winnig Money, Player Play Hours, Player country, Player City, Player Street, Player Zip Code, Player DOB, Player Facebook Link, Player Instagram Link, Player Twitter Link, Player Youtube Link )

## 1NF

Phone & Wining number are multi-valued attribute.

(Team ID, Team Name, Team Icon, Team established date, Team country, Total Earning, Team Winnig, Player ID, Player Name, Player Email, Player Password, Player Picture,

---

Player JoinDate, Player Phone, Player Salary, Player Winnig Money, Player Play Hours, Player country, Player City, Player Street, Player Zip Code, Player DOB, Player Facebook Link, Player Instagram Link, Player Twitter Link, Player Youtube Link )

## 2NF

---

**Team**(Team\_ID, Team\_Name,Team Icon, Team established date, Team country,Total Earning, Team Winnig)

**Player**(Player ID, Player Name, Player Email, Player Password, Player Picture, Player JoinDate, Player Salary, Player Winnig Money, Player Play Hours, Player country, Player City, Player Street, Player Zip Code, Player DOB, Player Facebook Link, Player Instagram Link, Player Twitter Link, Player Youtube Link)

## 3NF

**Team**(Team\_ID, Team\_Name,Team Icon, Team established date, Team country,Total Earning, Team Winnig)

**Player**(Player ID, Player Name, Player Email, Player Password, Player Picture, Player JoinDate, Player Salary, Player Winnig Money, Player Play Hours, Player DOB)

**Player Address** (Pa ID, **Player ID**, Player country, Player City, Player Street, Player Zip Code)

**Player Social Link** (Psl ID, **Player ID**, Player Facebook Link, Player Instagram Link, Player Twitter Link, Player Youtube Link)

## Table after Normalization

**Team**(Team\_ID, Team\_Name,Team Icon, Team established date, Team country,Total Earning, Team Winnig)

**Player**(Player ID, Player Name, Player Email, Player Password, Player Picture, Player JoinDate, Player Salary, Player Play Hours, Player DOB)

**Player Address** (Pa ID, **Player ID**, Player country, Player City, Player Street, Player Zip Code)

**Player Social Link** (Psl ID, **Player ID**, Player Facebook Link, Player Instagram Link, Player Twitter Link, Player Youtube Link)

**Player Phone** (Pp ID, **Player ID**, Player Phone)

**Player Wining** (Pw ID, **Player ID**, Player Winnig)

**Player Team** (Pt ID, **Player ID**, **Team ID**)

## 4.4 Has branch

### 4.4.1 (Record → Tournament)

#### UNF

( Record ID, Record Date, Record Price Pool, Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament Prize Pool )

#### 1NF

( Record ID, Record Date, Record Price Pool, Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament Prize Pool )

#### 2NF

**Record**(Record\_ID, Record Date, Record Price Pool, **Tournament ID**)

**Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament Prize Pool)

#### 3NF

No transitive dependency found. Same as 2NF.

### Table after Normalization

**Record**(Record\_ID, Record Date, Record Price Pool, **Tournament ID**)

**Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament Prize Pool)

### 4.4.2 (Tournament → Game)

#### UNF

( Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament \_Prize Pool, Game ID, Game Name, Game Icon, Game ReleaseDate, Game Platform, Game PricePool, Game Genre, Game Publisher )

#### 1NF

( Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate,

Tournament Location, Tournament Prize Pool, Game ID, Game Name, Game Icon, Game ReleaseDate, Game \_Platform, Game PricePool, Game Genre, Game Publisher  
)

---

## 2NF

**Tournament**(Tournament ID, Tournament Name, Tournament StartingDate,Tournament Ending Tournament Location, Tournament Prize Pool)

**Game**(Game \_ID, Game Name, Game Icon, Game \_ReleaseDate, Game Platform, Game PricePool, Game Genre, Game Publisher)

## 3NF

No transitive dependency found.Same as 2NF.

## Table after Normalization

**Tournament**(Tournament ID, Tournament Name, Tournament StartingDate,Tournament Ending Tournament Location, Tournament Prize Pool)

**Game**(Game \_ID, Game Name, Game Icon, Game \_ReleaseDate, Game Platform, Game PricePool, Game Genre, Game Publisher)

**Tournament Game**(Tournament ID, Game ID)

## **4.5      Participate branch**

### **4.5.1    (Teams → Game)**

#### UNF

( Team ID, Team Name,Team \_Icon, Team established date, Team country,Total Earning, Team Winnig, Game \_ID, Game Name, Game Icon, Game ReleaseDate, Game Platform, Game PricePool Game Genre, Game Publisher ) )

#### 1NF

( Team ID, Team Name,Team Icon, Team established date, Team country,Total Earning, Team Winnig, Game-ID, Game Name, Game Icon, Game ReleaseDate, Game Platform, Game PricePool, Game Genre, Game Publisher ) )

#### 2NF

**Team**(Team \_ID, Team \_Name,Team Icon, Team established date, Team country,Total Earning, Team Winnig)

**Game**(Game\_ID, Game Name, Game Icon, Game \_ReleaseDate, Game Platform, Game PricePool, Game Genre, Game Publisher)

### **3NF**

No transitive dependency found. Same as 2NF.

### **Table after Normalization**

**Team**(Team\_ID, Team \_Name, Team Icon, Team established date, Team country, Total Earning, Team Winnig)

**Game**(Game\_ID, Game Name, Game Icon, Game \_ReleaseDate, Game Platform, Game PricePool, Game Genre, Game Publisher)

**Team Game**(Team ID, Game\_ID)

## 4.6 Host branch

---

### 4.6.1 (Organizer → Tournament)

#### UNF

(Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament \_Prize Pool, Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization \_Phone)

#### 1NF

Phone is a multi-value attribute.

(Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament Prize Pool, Organization ID, Organization Name, Organization \_Email, Organization Password, Organization Picture, Organization Phone)

#### 2NF

**Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament Ending Date, Tournament Location, Tournament Prize Pool, Organization ID)

---

**Organization**(Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization Phone)

#### 3NF

No transitive dependency found. Same as 2NF.

### Table after Normalization

**Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament Ending Date, Tournament Location, Tournament Prize Pool, Organization ID)

---

**Organization**(Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture)

**Organization Phone**(Organization ID, Organization Phone)

**Organization Tournament**(Organization ID, Tournament ID)

## **4.7 Sponsor branch**

### **4.7.1 (Companies → Organization )**

#### **UNF**

(Organization- ID, Organization Name, Organization - Email, Organization Picture, Organization Phone, Company ID, Company - Name, Company Email, Company Picture, Company Phone, location)

#### **1NF**

phone is a multi-value attribute.

(Organization ID, Organization Name, Organization Email, Organization Picture, Organization Phone, Company ID, Company - Name, Company Email, Company - Picture, Company Phone, location)

#### **2NF**

**Organization**(Organization ID, Organization Name, Organization Email, Organization Picture, Organization Phone, Company ID)

**Company**(Company ID, Company Name, Company - Email, Company Picture, Company Phone, location)

#### **3NF**

No transitive dependency found. Same as 2NF.

#### **Table after Normalization**

**Organization**(Organization ID, Organization Name, Organization Email, Organization Picture, Company ID)

**Organization Phone**(Organization ID, Organization Phone)

**Company**(Company ID, Company Name, Company - Email, Company Picture, Company Phone, location)

**Company Phone**(Company ID, Company Phone)

**Organization Company**(Organization ID, Company ID)

### **4.7.2 (Companies → Teams )**

## **UNF**

---

(  
Team ID, Team Name, Team Icon, Team established date, Team country, Total Earnings, Team Winnig, Company ID, Company Name, Company Email, Company Password, Company Picture, Company Phone, Company location )

## **1NF**

Phone is multi-value attribute.

( Team ID, Team Name, Team Icon, Team established date, Team country, Total Earnings, Team Winnig, Company ID, Company Name, Company Email, Company Password, Company Picture, Company Phone, Company location )

## **2NF**

**Team**(Team ID, Team Name, Team Icon, Team established date, Team country, Total Earnings, Team Winnig

**Company**(Company ID, Company Name, Company Email, Company Password, Company Picture, Company Phone, Company location)

## **3NF**

No transitive dependency found. Same as 2NF.

### **Table after Normalization**

**Team**(Team ID, Team Name, Team Icon, Team established date, Team country, Total Earnings, Team Winnig

**Company**(Company ID, Company Name, Company Email, Company Password, Company Picture, Company Phone, Company location)

**Team Company**(Team ID, Company ID)

**Company Phone**(Company ID, Company Phone)

## **4.8 Temporary Tables**

1. **Manager** (Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate, **Admin ID**)
2. **Admin** (Admin ID, Admin Name, Admin Email, Admin Password, Admin Picture)
3. **Manager Phone** (Mp ID, **Manager ID**, Manager Phone)

- 
- 4. **Manager**(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate)
  - 5. **Finance**(Finance ID, Finance Account Number, Finance Balance, **Manager ID**)
  - 6. **Manager Phone** (Mp ID, **Manager ID**, Manager Phone)
  - 7. **Manager**(Manager ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate)
  - 8. **Team**(Team ID, Team Name, Team Icon, Team established date, Team country, Total Price Money, **Manager ID**)
  - 9. **Team Winnig**(Tw ID, **Team ID**, Team Winnig)
  - 10. **Manager Phone** (Mp ID, **Manager ID**, Manager Phone)
  - 11. **SocialMedia** (SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Hiredate, SocialMedia Salary)
  - 12. **ContentCreator** (ContentCreator ID, ContentCreator Name, ContentCreator Email, ContentCreator Password, ContentCreator Picture, ContentCreator Hiredate, ContentCreator Salary)
  - 13. **ContentCreator SocialMedia** (Ccs ID, **ContentCreator ID**, ContentCreator Facebook Link, ContentCreator Twitter Link, ContentCreator Instagram Link, ContentCreator Youtube Link)
  - 14. **ContentCreator Address** (Cca ID, **ContentCreator ID**, ContentCreator Country, ContentCreator City, ContentCreator Street, ContentCreator Zip Code)
  - 15. **ContentCreator Phone** (Ccp ID, **ContentCreator ID**, ContentCreator Phone)
  - 16. **SocialMedia Phone** (Smp ID, **SocialMedia ID**, SocialMedia Phone)
  - 17. **Finance**(Finance ID, Finance Account Number, Finance Balance)
  - 18. **Organization**(Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization Phone, **Finance ID**)
  - 19. **Organization Phone** (Op ID, **Organization ID**, Organization Phone)
  - 20. **Finance**(Finance ID, Finance Account Number, Finance Balance)
  - 21. **SocialMedia**(SocialMedia ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Hiredate, SocialMedia Salary, **Finance ID**)
  - 22. **SocialMedia Phone** (Smp ID, **SocialMedia ID**, SocialMedia Phone)
  - 23. **Team**(Team ID, Team Name, Team Icon, Team established date, Team country, Total Earning, Team Winnig)
-

24. **Player**(Player ID, Player Name, Player Email, Player Password, Player Picture, Player JoinDate,  
Player  
Salary, Player Play Hours, Player \_DOB)
25. **Player Address** (Pa ID, **Player ID**, Player country, Player City, Player Street, Player Zip Code)
26. **Player Social Link** (Psl ID, **Player ID**, Player Facebook Link, Player Instagram Link, Player Twitter  
Link, Player Youtube Link)
27. **Player Phone** (Pp ID, **Player ID**, Player Phone)
28. **Player Wining** (Pw ID, **Player ID**, Player Winnig)
29. **Player Team** (Pt ID, **Player ID**, Team ID)
30. **Record**(Record ID, Record Date, Record Price Pool, **Tournament ID**)
31. **Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament  
EndingDate, Tournament Location, Tournament Prize Pool)
32. **Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament Ending  
Tournament Location, Tournament Prize Pool)
33. **Game**(Game ID, Game Name, Game Icon, Game \_ReleaseDate, Game Platform, Game PricePool,  
Game Genre, Game Publisher)
34. **Tournament Game**(Tournament ID, Game ID)
35. **Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament Ending  
Tournament Location, Tournament Prize Pool, Organization ID)
36. **Organization**(Organization ID, Organization Name, Organization Email, Organization Password,  
Organization Picture)
37. **Organization Phone**(Organization ID, Organization Phone)
38. **Organization Tournament**(Organization ID, Tournament ID)
39. **Team**(Team ID, Team Name, Team Icon, Team established date, Team country, Total Earning,  
Team Winnig)
40. **Game**(Game ID, Game Name, Game Icon, Game \_ReleaseDate, Game Platform, Game PricePool,  
Game Genre, Game Publisher)
41. **Team Game**(Team ID, Game ID)
42. **Organization**(Organization ID, Organization Name, Organization Email, Organization Picture,  
Company ID)
43. **Organization Phone**(Organization ID, Organization Phone)

---

44. **Company**(Company ID, Company Name, Company \_Email, Company Picture, Company Phone, location)

45. **Company Phone**(Company ID, Company Phone)
46. **Organization Company**(Organization ID, Company ID)
47. **Team**(Team ID, Team Name, Team Icon, Team established date, Team country, Total Earning, Team Winnig)
48. **Company**(Company ID, Company Name, Company Email, Company Password, Company Picture, Company Phone, Company location)
49. **Team Company**(Team ID, Company ID)
50. **Company Phone**(Company ID, Company Phone)

## 4.9 Final Tables

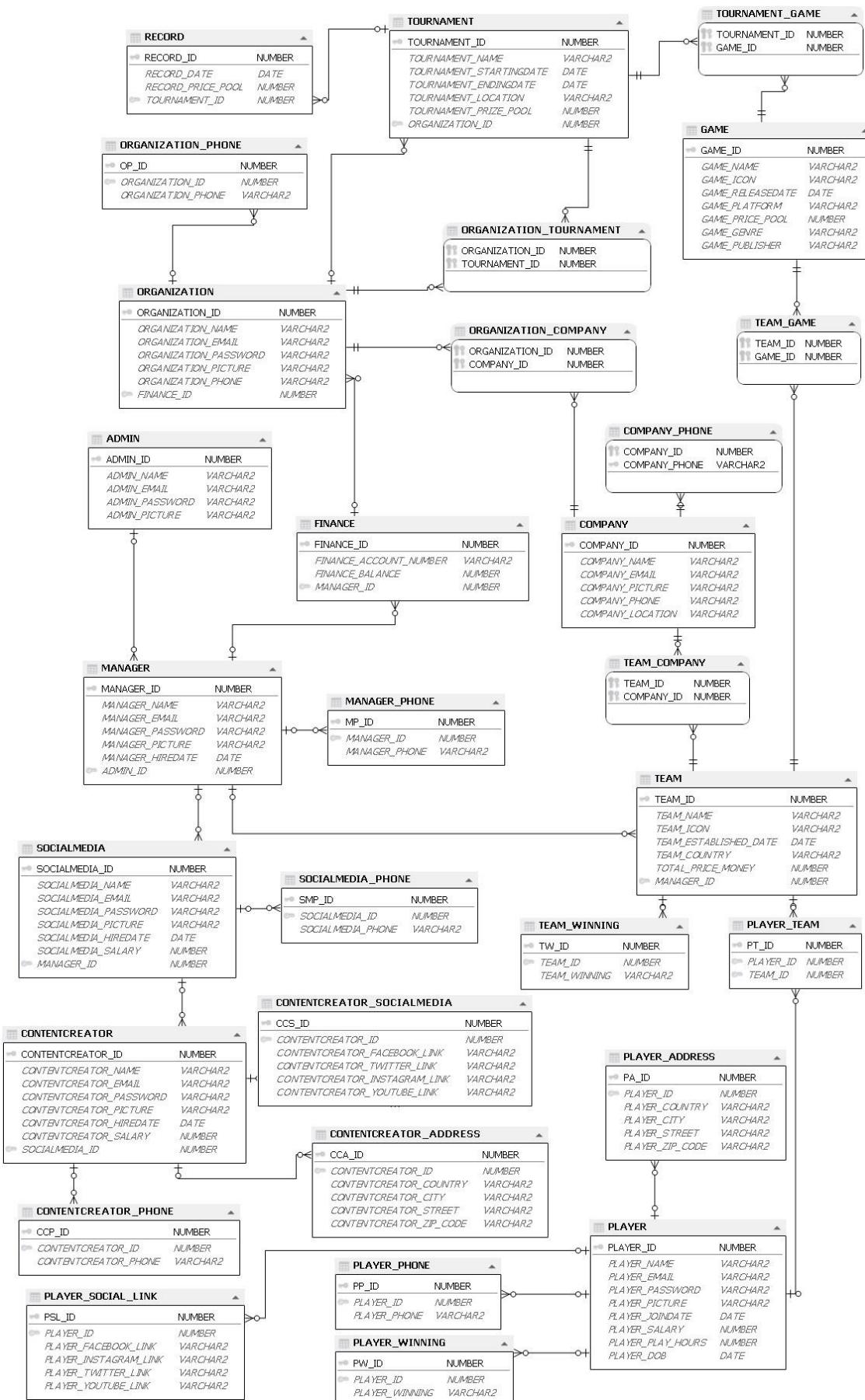
---

1. **Manager** (Manager-ID, Manager Name, Manager Email, Manager Password, Manager Picture, Manager Hiredate, **Admin ID**)
2. **Admin** (Admin\_ID, Admin Name, Admin Email, Admin Password, Admin Picture)
3. **Manager Phone** (Mp ID, **Manager ID**, Manager Phone)
4. **Finance**(Finance ID, Finance Account Number, Finance Balance, **Manager ID**)
5. **Team**(Team-ID, Team Name, Team Icon, Team established date, Team country, Total Price Money, **Manager ID**)
6. **Team Winnig**(Tw\_ID, **Team ID**, Team Winnig)
7. **SocialMedia** (SocialMedia\_ID, SocialMedia Name, SocialMedia Email, SocialMedia Password, SocialMedia Picture, SocialMedia Hiredate, SocialMedia Salary)
8. **ContentCreator** (ContentCreator\_ID, ContentCreator Name, ContentCreator Email, ContentCreator Password, ContentCreator Picture, ContentCreator Hiredate, ContentCreator Salary)
9. **ContentCreator SocialMedia** (Ccs\_ID, **ContentCreator ID**, ContentCreator Facebook Link, ContentCreator Twitter Link, ContentCreator

Instagram Link, ContentCreator Youtube Link)

10. **ContentCreator Address** (Cca ID, **ContentCreator ID**, ContentCreator Country, ContentCreator City, ContentCreator Street, ContentCreator Zip Code)
11. **ContentCreator Phone** (Ccp ID, **ContentCreator ID**, ContentCreator Phone)
12. **SocialMedia Phone** (Smp ID, **SocialMedia ID**, SocialMedia Phone)
13. **Organization**(Organization ID, Organization Name, Organization Email, Organization Password, Organization Picture, Organization Phone, **Finance ID**)
14. **Organization Phone** (Op ID, **Organization ID**, Organization Phone)
15. **Player**(Player-ID, Player Name, Player Email, Player Password, Player Picture, Player JoinDate, Player Salary, Player Play Hours, Player DOB)
16. **Player Address** (Pa ID, **Player ID**, Player country, Player City, Player Street, Player Zip Code)
17. **Player Social Link** (Psl ID, **Player ID**, Player Facebook Link, Player Instagram Link, Player Twitter Link, Player Youtube Link)
18. **Player Phone** (Pp ID, **Player ID**, Player Phone)
19. **Player Wining** (Pw ID, **Player ID**, Player Winnig)
20. **Player Team** (Pt ID, **Player ID**, **Team ID**)
21. **Record**(Record ID, Record Date, Record Price Pool, **Tournament ID**)
22. **Tournament**(Tournament ID, Tournament Name, Tournament StartingDate, Tournament EndingDate, Tournament Location, Tournament Prize Pool)
23. **Game**(Game ID, Game Name, Game Icon, Game ReleaseDate, Game Platform, Game PricePool, Game Genre, Game Publisher)
24. **Tournament Game**(Tournament ID, Game ID)
25. **Organization Tournament**(Organization ID, Tournament ID)
26. **Team Game**(Team ID, Game ID)
27. **Company**(Company ID, Company Name, Company Email, Company Picture, Company Phone, location)
28. **Company Phone**(Company ID, Company Phone)
29. **Organization Company**(Organization ID, Company ID)
30. **Team Company**(Team ID, Company ID)

## 4.10 Schema Diagram



# SQL Queries

---

## 5.1 User Creation

```
1 -- Create the users
CREATE USER admin IDENTIFIED BY bossman;
CREATE USER manager IDENTIFIED BY lessbossman;
CREATE USER finance IDENTIFIED BY calculator;
2
3
4
```

### User Creation

```
Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production
SQL> CREATE USER admin IDENTIFIED BY bossman ;
User created.

SQL> CREATE USER manager IDENTIFIED BY lessbossman ;
User created.

SQL> CREATE USER finance IDENTIFIED BY calculator ;
User created.

SQL> |
```

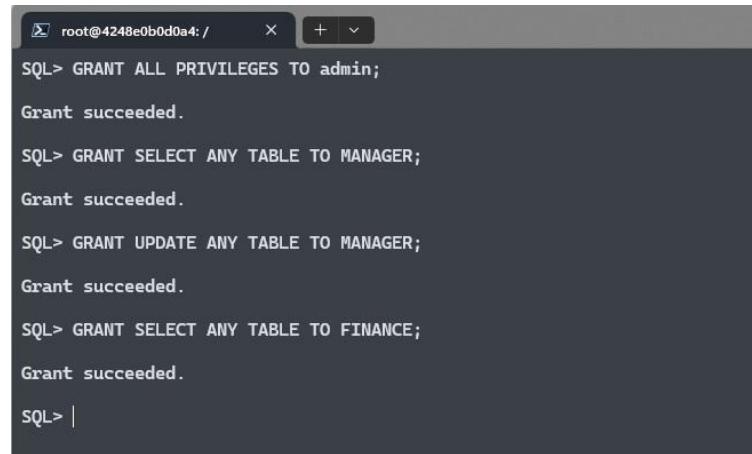
Screenshot of User Creation from SQL Plus 1

```
-- Grant All privileges to admin user
GRANT ALL PRIVILEGES TO admin;

-- Grant DML privileges to manager user
GRANT SELECT ANY TABLE TO MANAGER;
GRANT UPDATE ANY TABLE TO MANAGER;

-- Grant Read only privileges to finance user
GRANT SELECT ANY TABLE TO FINANCE;
2
3
4
5
6
7
8
9
```

### User Creation



```

root@4248e0b0d0a4:~# + -
SQL> GRANT ALL PRIVILEGES TO admin;
Grant succeeded.

SQL> GRANT SELECT ANY TABLE TO MANAGER;
Grant succeeded.

SQL> GRANT UPDATE ANY TABLE TO MANAGER;
Grant succeeded.

SQL> GRANT SELECT ANY TABLE TO FINANCE;
Grant succeeded.

SQL> |

```

Screenshot of User Privileges from SQL Plus

## 5.2 Table Creation

1

```

CREATE TABLE Admin (
    Admin_ID INT PRIMARY KEY, Admin_Name
    VARCHAR(100),
    Admin_Email VARCHAR(100),
    Admin_Password VARCHAR(100),
    Admin_Picture VARCHAR(100)
);

```

2

3

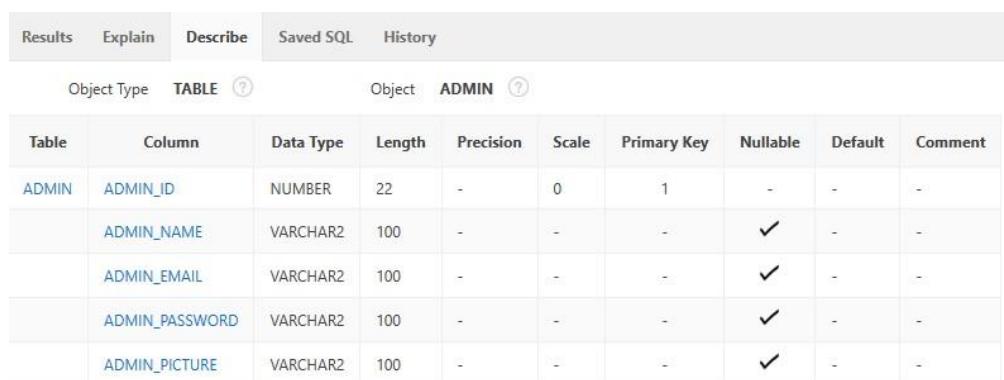
4

5

6

7

### Create Admin table



The screenshot shows the SQL Developer interface with the 'Describe' tab selected. It displays the structure of the 'ADMIN' table.

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADMIN	ADMIN_ID	NUMBER	22	-	0	1	-	-	-
	ADMIN_NAME	VARCHAR2	100	-	-	-	✓	-	-
	ADMIN_EMAIL	VARCHAR2	100	-	-	-	✓	-	-
	ADMIN_PASSWORD	VARCHAR2	100	-	-	-	✓	-	-
	ADMIN_PICTURE	VARCHAR2	100	-	-	-	✓	-	-

## Admin table description 1

```
CREATE TABLE Manager (
    Manager_ID INT PRIMARY KEY,
    Manager_Name VARCHAR(100),
    Manager_Email VARCHAR(100),
    Manager_Password VARCHAR(100),
    Manager_Picture
    VARCHAR(100),
    Manager_Hiredate
    DATE, Admin_ID
    INT,
    FOREIGN KEY (Admin_id) REFERENCES Manager
    (Admin_ID));
```

2  
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4  
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7  
8<sup>9</sup>  
10

### Create Manager table

Object Type	TABLE	Object	MANAGER						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MANAGER	MANAGER_ID	NUMBER	22	-	0	1	-	-	-
	MANAGER_NAME	VARCHAR2	100	-	-	-	✓	-	-
	MANAGER_EMAIL	VARCHAR2	100	-	-	-	✓	-	-
	MANAGER_PASSWORD	VARCHAR2	100	-	-	-	✓	-	-
	MANAGER_PICTURE	VARCHAR2	100	-	-	-	✓	-	-
	MANAGER_HIREDATE	DATE	7	-	-	-	✓	-	-
	ADMIN_ID	NUMBER	22	-	0	-	✓	-	-

### Manager table description 1

```
CREATE TABLE Manager_Phone (
    Mp_ID INT PRIMARY KEY,
    Manager_ID INT,
    Manager_Phone VARCHAR(20),
    FOREIGN KEY (Manager_ID) REFERENCES Manager (Manager_ID));
```

2  
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6

### Create Manager Phone table

Results Explain Describe Saved SQL History

Object Type TABLE ⓘ Object MANAGER\_PHONE ⓘ

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
MANAGER_PHONE	MP_ID	NUMBER	22	-	0	1	-	-	-
	MANAGER_ID	NUMBER	22	-	0	-	✓	-	-
	MANAGER_PHONE	VARCHAR2	20	-	-	-	✓	-	-

### Manager Phone table description 1

```
CREATE TABLE Finance (
    Finance_ID INT PRIMARY KEY,
    Finance_Account_Number
    VARCHAR(100),
    Finance_Balance
    DECIMAL(10,          2),
    Manager_ID INT,
    FOREIGN KEY (Manager_ID) REFERENCES Manager
    (Manager_ID));
```

2  
3  
4  
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7

### Create Finance table

Results Explain Describe Saved SQL History

Object Type TABLE ⓘ Object FINANCE ⓘ

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
FINANCE	FINANCE_ID	NUMBER	22	-	0	1	-	-	-
	FINANCE_ACCOUNT_NUMBER	VARCHAR2	100	-	-	-	✓	-	-
	FINANCE_BALANCE	NUMBER	-	10	2	-	✓	-	-
	MANAGER_ID	NUMBER	22	-	0	-	✓	-	-

### Finance table description 1

```
CREATE TABLE Team (
    Team_ID INT PRIMARY KEY,
    Team_Name VARCHAR(100),
    Team_Icon VARCHAR(100),
    Team_Established_Date DATE,
    Team_Country VARCHAR(100),
    Total_Price_Money
    DECIMAL(10,          2),
    Manager_ID INT,
    FOREIGN KEY (Manager_ID) REFERENCES Manager
    (Manager_ID)
);
```

2  
3  
4  
5  
6  
7

8<sup>9</sup>

10

## Create Team table

Object Type TABLE ⓘ										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
TEAM	TEAM_ID	NUMBER	22	-	0	1	-	-	-	
	TEAM_NAME	VARCHAR2	100	-	-	-	✓	-	-	
	TEAM_ICON	VARCHAR2	100	-	-	-	✓	-	-	
	TEAM_ESTABLISHED_DATE	DATE	7	-	-	-	✓	-	-	
	TEAM_COUNTRY	VARCHAR2	100	-	-	-	✓	-	-	
	TOTAL_PRICE_MONEY	NUMBER	-	10	2	-	✓	-	-	
	MANAGER_ID	NUMBER	22	-	0	-	✓	-	-	

## Team table description

1

```
CREATE TABLE Team_Winning (
    Tw_ID INT PRIMARY KEY,
    Team_ID INT,
    Team_Winning VARCHAR(100),
    FOREIGN KEY (Team_ID) REFERENCES Team (Team_ID);
```

2

3

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5

6

## Create Team Winning table

Object Type TABLE ⓘ										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
TEAM_WINNING	TW_ID	NUMBER	22	-	0	1	-	-	-	
	TEAM_ID	NUMBER	22	-	0	-	✓	-	-	
	TEAM_WINNING	VARCHAR2	100	-	-	-	✓	-	-	

## Team Winning table description

```

1 CREATE TABLE SocialMedia (
2     SocialMedia_ID INT PRIMARY KEY,
3     SocialMedia_Name VARCHAR(100),
4     SocialMedia_Email VARCHAR(100),
5     SocialMedia_Password VARCHAR(100),
6     SocialMedia_Picture VARCHAR(100),
7     SocialMedia_Hiredate DATE,
8     SocialMedia_Salary DECIMAL(10, 2),
9     Manager_ID INT,
10    FOREIGN KEY (Manager_ID) REFERENCES Manager (Manager_ID)
11 );

```

### Create SocialMedia table

Object Type	TABLE	Object	SOCIALMEDIA						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
SOCIALMEDIA	SOCIALMEDIA_ID	NUMBER	22	-	0	1	-	-	-
	SOCIALMEDIA_NAME	VARCHAR2	100	-	-	-	✓	-	-
	SOCIALMEDIA_EMAIL	VARCHAR2	100	-	-	-	✓	-	-
	SOCIALMEDIA_PASSWORD	VARCHAR2	100	-	-	-	✓	-	-
	SOCIALMEDIA_PICTURE	VARCHAR2	100	-	-	-	✓	-	-
	SOCIALMEDIA_HIREDATE	DATE	7	-	-	-	✓	-	-
	SOCIALMEDIA_SALARY	NUMBER	-	10	2	-	✓	-	-
	MANAGER_ID	NUMBER	22	-	0	-	✓	-	-

### SocialMedia table description 1

```

CREATE TABLE ContentCreator (
    ContentCreator_ID INT PRIMARY KEY, ContentCreator_Name
    VARCHAR(100),
    ContentCreator_Email VARCHAR(100),
    ContentCreator_Password VARCHAR(100),
    ContentCreator_Picture VARCHAR(100),
    ContentCreator_Hiredate DATE,
    ContentCreator_Salary DECIMAL(10, 2), SocialMedia_ID INT,
    FOREIGN KEY (SocialMedia_ID) REFERENCES SocialMedia (SocialMedia_ID) );

```

```

2
3
4
5
6
7
8
9

```

```

10
11

```

### Create ContentCreator table

Results Explain Describe Saved SQL History

Object Type TABLE ⓘ Object CONTENTCREATOR ⓘ

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CONTENTCREATOR	CONTENTCREATOR_ID	NUMBER	22	-	0	1	-	-	-
	CONTENTCREATOR_NAME	VARCHAR2	100	-	-	-	✓	-	-
	CONTENTCREATOR_EMAIL	VARCHAR2	100	-	-	-	✓	-	-
	CONTENTCREATOR_PASSWORD	VARCHAR2	100	-	-	-	✓	-	-
	CONTENTCREATOR_PICTURE	VARCHAR2	100	-	-	-	✓	-	-
	CONTENTCREATOR_HIREDATE	DATE	7	-	-	-	✓	-	-
	CONTENTCREATOR_SALARY	NUMBER	-	10	2	-	✓	-	-
	SOCIALMEDIA_ID	NUMBER	22	-	0	-	✓	-	-

### ContentCreator table description 1

```
CREATE TABLE ContentCreator_SocialMedia (
    Ccs_ID INT PRIMARY KEY,
    ContentCreator_ID INT,
    ContentCreator_Facebook_Link VARCHAR(100),
    ContentCreator_Twitter_Link VARCHAR(100),
    ContentCreator_Instagram_Link VARCHAR(100), ContentCreator_Youtube_Link VARCHAR(100),
    FOREIGN KEY (ContentCreator_ID) REFERENCES ContentCreator (ContentCreator_ID );
```

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1  
9

### Create ContentCreator SocialMedia table

Results Explain Describe Saved SQL History

Object Type TABLE ⓘ Object CONTENTCREATOR\_SOCIALMEDIA ⓘ

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CONTENTCREATOR_SOCIALMEDIA	CCS_ID	NUMBER	22	-	0	1	-	-	-
	CONTENTCREATOR_ID	NUMBER	22	-	0	-	✓	-	-
	CONTENTCREATOR_FACEBOOK_LINK	VARCHAR2	100	-	-	-	✓	-	-
	CONTENTCREATOR_TWITTER_LINK	VARCHAR2	100	-	-	-	✓	-	-
	CONTENTCREATOR_INSTAGRAM_LINK	VARCHAR2	100	-	-	-	✓	-	-
	CONTENTCREATOR_YOUTUBE_LINK	VARCHAR2	100	-	-	-	✓	-	-

1  
9

### Create ContentCreator Address table

## ContentCreator SocialMedia table description 1

```
CREATE TABLE ContentCreator_Address (
    Cca_ID INT PRIMARY KEY,
    ContentCreator_ID INT,
    ContentCreator_Country VARCHAR(100),
    ContentCreator_City VARCHAR(100),
    ContentCreator_Street VARCHAR(100),
    ContentCreator_Zip_Code VARCHAR(20),
    FOREIGN KEY (ContentCreator_ID) REFERENCES ContentCreator (ContentCreator_ID);
```

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3  
4  
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7

Object Type	TABLE	Object	CONTENTCREATOR_ADDRESS	?						
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
CONTENTCREATOR_ADDRESS		CCA_ID	NUMBER	22	-	0	1	-	-	-
		CONTENTCREATOR_ID	NUMBER	22	-	0	-	✓	-	-
		CONTENTCREATOR_COUNTRY	VARCHAR2	100	-	-	-	✓	-	-
		CONTENTCREATOR_CITY	VARCHAR2	100	-	-	-	✓	-	-
		CONTENTCREATOR_STREET	VARCHAR2	100	-	-	-	✓	-	-
		CONTENTCREATOR_ZIP_CODE	VARCHAR2	20	-	-	-	✓	-	-

## ContentCreator Address table description 1

```
CREATE TABLE ContentCreator_Phone (
    Ccp_ID INT PRIMARY KEY,
    ContentCreator_ID INT,
    ContentCreator_Phone VARCHAR(20),
    FOREIGN KEY (ContentCreator_ID) REFERENCES ContentCreator (ContentCreator_ID)
);
```

2  
3  
4  
  
5  
6

## Create ContentCreator Phone table

1

```
CREATE TABLE SocialMedia_Phone (
    Smp_ID INT PRIMARY KEY,
    SocialMedia_ID INT,
    SocialMedia_Phone VARCHAR(20),
    FOREIGN KEY (SocialMedia_ID) REFERENCES SocialMedia (SocialMedia_ID));
```

2

3

4

1

6

### Create SocialMedia Phone table

Object Type TABLE ⓘ											Object SOCIALMEDIA_PHONE ⓘ
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment		
SOCIALMEDIA_PHONE	SMP_ID	NUMBER	22	-	0	1	-	-	-		
	SOCIALMEDIA_ID	NUMBER	22	-	0	-	✓	-	-		
	SOCIALMEDIA_PHONE	VARCHAR2	20	-	-	-	✓	-	-		

### SocialMedia Phone table description

```
1 CREATE TABLE Organization (
2     Organization_ID INT PRIMARY KEY,
3     Organization_Name VARCHAR(100),
4     Organization_Email VARCHAR(100),
5     Organization_Password VARCHAR(100),
6     Organization_Picture VARCHAR(100),
7     Organization_Phone VARCHAR(20),
8     Finance_ID INT,
9     FOREIGN KEY (Finance_ID) REFERENCES Finance (Finance_ID)
10 );
```

### Create Organization table

Object Type TABLE ⓘ											Object ORGANIZATION ⓘ
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment		
ORGANIZATION	ORGANIZATION_ID	NUMBER	22	-	0	1	-	-	-		
	ORGANIZATION_NAME	VARCHAR2	100	-	-	-	✓	-	-		
	ORGANIZATION_EMAIL	VARCHAR2	100	-	-	-	✓	-	-		
	ORGANIZATION_PASSWORD	VARCHAR2	100	-	-	-	✓	-	-		
	ORGANIZATION_PICTURE	VARCHAR2	100	-	-	-	✓	-	-		
	ORGANIZATION_PHONE	VARCHAR2	20	-	-	-	✓	-	-		
	FINANCE_ID	NUMBER	22	-	0	-	✓	-	-		

1

6

### Create Organization Phone table

## Organization table description 1

```
CREATE TABLE Organization_Phone (
    Op_ID INT PRIMARY KEY,
    Organization_ID INT,
    Organization_Phone VARCHAR(20),
    FOREIGN KEY (Organization_ID) REFERENCES Organization (Organization_ID)
);
```

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Organization_Phone										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
ORGANIZATION_PHONE	OP_ID	NUMBER	22	-	0	1	-	-	-	
	ORGANIZATION_ID	NUMBER	22	-	0	-	✓	-	-	
	ORGANIZATION_PHONE	VARCHAR2	20	-	-	-	✓	-	-	

## Organization Phone table description 1

```
CREATE TABLE Player (
    Player_ID INT PRIMARY KEY, Player_Name
    VARCHAR(100),
    Player_Email VARCHAR(100),
    Player_Password VARCHAR(100),
    Player_Picture VARCHAR(100),
    Player_JoinDate DATE,
    Player_Salary DECIMAL(10, 2),
    Player_Play_Hours INT,
    Player_DOB DATE
);
```

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## Create Player table

Results	Explain	Describe	Saved SQL	History					
Object Type		TABLE	Object	PLAYER					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PLAYER	PLAYER_ID	NUMBER	22	-	0	1	-	-	-
	PLAYER_NAME	VARCHAR2	100	-	-	-	✓	-	-
	PLAYER_EMAIL	VARCHAR2	100	-	-	-	✓	-	-
	PLAYER_PASSWORD	VARCHAR2	100	-	-	-	✓	-	-
	PLAYER_PICTURE	VARCHAR2	100	-	-	-	✓	-	-
	PLAYER_JOINDATE	DATE	7	-	-	-	✓	-	-
	PLAYER_SALARY	NUMBER	-	10	2	-	✓	-	-
	PLAYER_PLAY_HOURS	NUMBER	22	-	0	-	✓	-	-
	PLAYER_DOB	DATE	7	-	-	-	✓	-	-

### Player table description 1

```
CREATE TABLE Player_Address (
    Pa_ID INT PRIMARY KEY,
    Player_ID INT,
    Player_Country VARCHAR(100),
    Player_City VARCHAR(100),
    Player_Street VARCHAR(100),
    Player_Zip_Code VARCHAR(20),
    FOREIGN KEY (Player_ID) REFERENCES Player (Player_ID));
```

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### Create Player Address table

Results	Explain	Describe	Saved SQL	History					
Object Type		TABLE	Object	PLAYER_ADDRESS					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PLAYER_ADDRESS	PA_ID	NUMBER	22	-	0	1	-	-	-
	PLAYER_ID	NUMBER	22	-	0	-	✓	-	-
	PLAYER_COUNTRY	VARCHAR2	100	-	-	-	✓	-	-
	PLAYER_CITY	VARCHAR2	100	-	-	-	✓	-	-
	PLAYER_STREET	VARCHAR2	100	-	-	-	✓	-	-
	PLAYER_ZIP_CODE	VARCHAR2	20	-	-	-	✓	-	-

## Player Address table description 1

```
CREATE TABLE Player_Social_Link (
    Psl_ID INT PRIMARY KEY,
    Player_ID INT,
    Player_Facebook_Link VARCHAR(100),
    Player_Instagram_Link VARCHAR(100),
    Player_Twitter_Link VARCHAR(100),
    Player_Youtube_Link VARCHAR(100),
    FOREIGN KEY (Player_ID) REFERENCES Player (Player_ID));
```

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## Create Player Social Link table

PLAYER_SOCIAL_LINK										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
PLAYER_SOCIAL_LINK	PSL_ID	NUMBER	22	-	0	1	-	-	-	
	PLAYER_ID	NUMBER	22	-	0	-	✓	-	-	
	PLAYER_FACEBOOK_LINK	VARCHAR2	100	-	-	-	✓	-	-	
	PLAYER_INSTAGRAM_LINK	VARCHAR2	100	-	-	-	✓	-	-	
	PLAYER_TWITTER_LINK	VARCHAR2	100	-	-	-	✓	-	-	
	PLAYER_YOUTUBE_LINK	VARCHAR2	100	-	-	-	✓	-	-	

## Player Social Link table description

1  
2  
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```
CREATE TABLE Player_Phone (
    Pp_ID INT PRIMARY KEY,
    Player_ID INT,
    Player_Phone VARCHAR(20),
    FOREIGN KEY (Player_ID) REFERENCES Player (Player_ID));
```

PLAYER_PHONE										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
PLAYER_PHONE	PP_ID	NUMBER	22	-	0	1	-	-	-	
	PLAYER_ID	NUMBER	22	-	0	-	✓	-	-	
	PLAYER_PHONE	VARCHAR2	20	-	-	-	✓	-	-	

## Player Phone table description 1

```
CREATE TABLE Player_Winning (
    Pw_ID INT PRIMARY KEY,
    Player_ID INT,
    Player_Winning VARCHAR(100),
    FOREIGN KEY (Player_ID) REFERENCES Player (Player_ID)
);
```

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## Create Player Winning table

Object Type TABLE Object PLAYER_WINNING									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PLAYER_WINNING	PW_ID	NUMBER	22	-	0	1	-	-	-
	PLAYER_ID	NUMBER	22	-	0	-	✓	-	-
	PLAYER_WINNING	VARCHAR2	100	-	-	-	✓	-	-

## Player Winning table description 1

```
CREATE TABLE Player_Team (
    Pt_ID INT PRIMARY KEY, Player_ID INT,
    Team_ID INT,
    FOREIGN KEY (Player_ID) REFERENCES Player (Player_ID),
    FOREIGN KEY (Team_ID) REFERENCES Team (Team_ID)
);
```

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## Create Player Team table

Object Type TABLE Object PLAYER_TEAM									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PLAYER_TEAM	PT_ID	NUMBER	22	-	0	1	-	-	-
	PLAYER_ID	NUMBER	22	-	0	-	✓	-	-
	TEAM_ID	NUMBER	22	-	0	-	✓	-	-

## Player Team table description

```

1 CREATE TABLE Tournament (
2     Tournament_ID INT PRIMARY KEY,
3     Tournament_Name VARCHAR(100),
4     Tournament_StartDate DATE,
5     Tournament_EndingDate DATE,
6     Tournament_Location VARCHAR(100),
7     Tournament_Prize_Pool DECIMAL(10, 2),
8     Organization_ID INT,
9     FOREIGN KEY (Organization_ID) REFERENCES Organization (Organization_ID)
10    );

```

### Create Tournament table

Object Type TABLE ⓘ											Object TOURNAMENT ⓘ										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment												
TOURNAMENT	TOURNAMENT_ID	NUMBER	22	-	0	1	-	-	-												
	TOURNAMENT_NAME	VARCHAR2	100	-	-	-	✓	-	-												
	TOURNAMENT_STARTDATE	DATE	7	-	-	-	✓	-	-												
	TOURNAMENT_ENDINGDATE	DATE	7	-	-	-	✓	-	-												
	TOURNAMENT_LOCATION	VARCHAR2	100	-	-	-	✓	-	-												
	TOURNAMENT_PRIZE_POOL	NUMBER	-	10	2	-	✓	-	-												
	ORGANIZATION_ID	NUMBER	22	-	0	-	✓	-	-												

### Tournament table description 1

```

CREATE TABLE Record (
    Record_ID INT PRIMARY KEY,
    Record_Date DATE,
    Record_Price_Pool      DECIMAL(10,      2),
    Tournament_ID INT,
    FOREIGN KEY (Tournament_ID) REFERENCES Tournament (Tournament_ID);

```

```

2
3
4
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6
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```

### Create Record table

Object Type TABLE ⓘ											Object RECORD ⓘ										
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment												
RECORD	RECORD_ID	NUMBER	22	-	0	1	-	-	-												
	RECORD_DATE	DATE	7	-	-	-	✓	-	-												
	RECORD_PRICE_POOL	NUMBER	-	10	2	-	✓	-	-												
	TOURNAMENT_ID	NUMBER	22	-	0	-	✓	-	-												

### Record table description

```

1 CREATE TABLE Game (
2     Game_ID INT PRIMARY KEY,
3     Game_Name VARCHAR(100),
4     Game_Icon VARCHAR(100),
5     Game_ReleaseDate DATE,
6     Game_Platform VARCHAR(100),
7     Game_Price_Pool DECIMAL(10, 2),
8     Game_Genre VARCHAR(100),
9     Game_Publisher VARCHAR(100)
10    );

```

### Create Game table

Object Type TABLE ⓘ									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
GAME	GAME_ID	NUMBER	22	-	0	1	-	-	-
	GAME_NAME	VARCHAR2	100	-	-	-	✓	-	-
	GAME_ICON	VARCHAR2	100	-	-	-	✓	-	-
	GAME_RELEASEDATE	DATE	7	-	-	-	✓	-	-
	GAME_PLATFORM	VARCHAR2	100	-	-	-	✓	-	-
	GAME_PRICE_POOL	NUMBER	-	10	2	-	✓	-	-
	GAME_GENRE	VARCHAR2	100	-	-	-	✓	-	-
	GAME_PUBLISHER	VARCHAR2	100	-	-	-	✓	-	-

### Game table description 1

```

CREATE TABLE Tournament_Game (
    Tournament_ID INT,
    Game_ID INT,
    PRIMARY KEY (Tournament_ID, Game_ID),
    FOREIGN KEY (Tournament_ID) REFERENCES Tournament (Tournament_ID),
    FOREIGN KEY (Game_ID) REFERENCES Game (Game_ID)
);

```

### Create Tournament Game table

Object Type TABLE ⓘ									
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
Tournament_Game	TOURNAMENT_ID	NUMBER	22	-	0	1	-	-	-
	GAME_ID	NUMBER	22	-	0	2	-	-	-

### Tournament Game table description

6  
7

1

```
CREATE TABLE Organization_Tournament (
    Organization_ID INT, Tournament_ID
    INT,
    PRIMARY KEY (Organization_ID, Tournament_ID),
    FOREIGN KEY (Organization_ID) REFERENCES Organization (Organization_ID),
    FOREIGN KEY (Tournament_ID) REFERENCES Tournament (Tournament_ID);
```

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### Create Organization Tournament table

Results	Explain	Describe	Saved SQL	History					
Object Type		TABLE	Object	ORGANIZATION_TOURNAMENT					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ORGANIZATION_TOURNAMENT	ORGANIZATION_ID	NUMBER	22	-	0	1	-	-	-
	TOURNAMENT_ID	NUMBER	22	-	0	2	-	-	-

### Organization Tournament table description

---

```
CREATE TABLE Team_Game (
    Team_ID INT,
    Game_ID INT,
    PRIMARY KEY (Team_ID, Game_ID),
    FOREIGN KEY (Team_ID) REFERENCES Team (Team_ID),
    FOREIGN KEY (Game_ID) REFERENCES Game (Game_ID)

);
```

---

## Create Team Game table

Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
TEAM_ID	NUMBER	22	-	0	1	-	-	-
GAME_ID	NUMBER	22	-	0	2	-	-	-

Team Game table description

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```

### Create Company table

Object Type TABLE ⓘ										Object COMPANY ⓘ
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
COMPANY	COMPANY_ID	NUMBER	22	-	0	1	-	-	-	
	COMPANY_NAME	VARCHAR2	100	-	-	-	✓	-	-	
	COMPANY_EMAIL	VARCHAR2	100	-	-	-	✓	-	-	
	COMPANY_PICTURE	VARCHAR2	100	-	-	-	✓	-	-	
	COMPANY_PHONE	VARCHAR2	20	-	-	-	✓	-	-	
	COMPANY_LOCATION	VARCHAR2	100	-	-	-	✓	-	-	

### Company table description 1

```

CREATE TABLE Company_Phone (
    Company_ID INT,
    Company_Phone VARCHAR(20),
    PRIMARY KEY (Company_ID, Company_Phone),
    FOREIGN KEY (Company_ID) REFERENCES Company (Company_ID) );

```

2  
3  
4  
5  
6

### Create Company Phone table

Results	Explain	Describe	Saved SQL	History						
Object Type		TABLE	Object		COMPANY_PHONE					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
COMPANY_PHONE	COMPANY_ID	NUMBER	22	-	0	1	-	-	-	
	COMPANY_PHONE	VARCHAR2	20	-	-	2	-	-	-	

### Company Phone table description 1

```

CREATE TABLE Organization_Company (
    Organization_ID INT, Company_ID INT,
    PRIMARY KEY (Organization_ID, Company_ID),
    FOREIGN KEY (Organization_ID) REFERENCES Organization (Organization_ID),
    FOREIGN KEY (Company_ID) REFERENCES Company (Company_ID);
)

```

2  
3  
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5  
6  
7

### Create Organization Company table

Results	Explain	Describe	Saved SQL	History						
Object Type		TABLE	Object		ORGANIZATION_COMPANY					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
ORGANIZATION_COMPANY	ORGANIZATION_ID	NUMBER	22	-	0	1	-	-	-	
	COMPANY_ID	NUMBER	22	-	0	2	-	-	-	

### Organization Company table description

```

1 CREATE TABLE Team_Company (
2     Team_ID INT,
3     Company_ID INT,
4     PRIMARY KEY (Team_ID, Company_ID),
5     FOREIGN KEY (Team_ID) REFERENCES Team (Team_ID),
6     FOREIGN KEY (Company_ID) REFERENCES Company (Company_ID)
7 );

```

### Create Team Company table

Results	Explain	Describe	Saved SQL	History						
Object Type		TABLE	Object		TEAM_COMPANY					
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	
TEAM_COMPANY	TEAM_ID	NUMBER	22	-	0	1	-	-	-	
	COMPANY_ID	NUMBER	22	-	0	2	-	-	-	

### Team Company table description

1  
2  
3  
4  
5  
6

## 5.3 Sequence Creation

1  
2  
3  
4  
5  
6

```
-- Create sequence for Manager table
CREATE SEQUENCE seq_manager_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Admin table
CREATE SEQUENCE seq_admin_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Manager_Phone table
CREATE SEQUENCE seq_mp_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Finance table
CREATE SEQUENCE seq_finance_id START WITH 1 INCREMENT BY 1;

-- Create sequence for Team table
CREATE SEQUENCE seq_team_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Team_Winning table
CREATE SEQUENCE seq_tw_id START WITH 1 INCREMENT BY 1;
-- Create sequence for SocialMedia table
CREATE SEQUENCE seq_socialmedia_id START WITH 1 INCREMENT BY 1;
-- Create sequence for ContentCreator table
CREATE SEQUENCE seq_contentcreator_id START WITH 1 INCREMENT BY 1;
-- Create sequence for ContentCreator_SocialMedia table CREATE SEQUENCE
seq_ccs_id START WITH 1 INCREMENT BY 1; -- Create sequence for
ContentCreator_Address table
CREATE SEQUENCE seq_cca_id START WITH 1 INCREMENT BY 1; -- Create sequence for
ContentCreator_Phone table
CREATE SEQUENCE seq_ccp_id START WITH 1 INCREMENT BY 1;

-- Create sequence for SocialMedia_Phone table
CREATE SEQUENCE seq_smp_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Organization table
CREATE SEQUENCE seq_organization_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Organization_Phone table
CREATE SEQUENCE seq_op_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Player table
CREATE SEQUENCE seq_player_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Player_Address table
CREATE SEQUENCE seq_pa_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Player_Social_Link table
CREATE SEQUENCE seq_psl_id START WITH 1 INCREMENT BY 1;

-- Create sequence for Player_Phone table
CREATE SEQUENCE seq_pp_id START WITH 1 INCREMENT BY 1; -- Create sequence for
Player_Winning table
CREATE SEQUENCE seq_pw_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Record table
CREATE SEQUENCE seq_record_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Tournament table
CREATE SEQUENCE seq_tournament_id START WITH 1 INCREMENT BY 1;
-- Create sequence for Game table
CREATE SEQUENCE seq_game_id START WITH 1 INCREMENT BY 1;
```

```
1  
2  
3  
4  
5  
6  
-- Create sequence for Company table  
CREATE SEQUENCE seq_company_id START WITH 1 INCREMENT BY 1;  
-- Create sequence for Company_Phone table  
CREATE SEQUENCE seq_cp_id START WITH 1 INCREMENT BY 1;-- Create sequence for  
Organization_Company table  
CREATE SEQUENCE seq_oc_id START WITH 1 INCREMENT BY 1;  
--
```

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## Sequence Creation

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## 5.4 Index for Table

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6

```
-- Create index for Manager table
CREATE INDEX idx_manager_email ON Manager (Manager_Email);
-- Create index for Admin table
CREATE INDEX idx_admin_email ON Admin (Admin_Email);
-- Create index for Manager_Phone table
CREATE INDEX idx_manager_phone_manager_id ON Manager_Phone (Manager_ID);
-- Create index for Finance table
CREATE INDEX idx_finance_manager_id ON Finance (Manager_ID);
-- Create index for Team table
CREATE INDEX idx_team_manager_id ON Team (Manager_ID);

-- Create index for Team_Winning table
CREATE INDEX idx_team_winning_team_id ON Team_Winning (Team_ID);
-- Create index for SocialMedia table
CREATE INDEX idx_socialmedia_name ON SocialMedia (SocialMedia_Name);
-- Create index for ContentCreator table
CREATE INDEX idx_contentcreator_name ON ContentCreator (ContentCreator_Name);
-- Create index for ContentCreator_SocialMedia table
CREATE INDEX idx_ccs_contentcreator_id ON ContentCreator_SocialMedia (ContentCreator_ID)
;
-- Create index for ContentCreator_Address table
CREATE INDEX idx_cca_contentcreator_id ON ContentCreator_Address (ContentCreator_ID);
-- Create index for ContentCreator_Phone table
CREATE INDEX idx_ccp_contentcreator_id ON ContentCreator_Phone (ContentCreator_ID);
-- Create index for SocialMedia_Phone table
CREATE INDEX idx_smp_socialmedia_id ON SocialMedia_Phone (SocialMedia_ID);
-- Create index for Organization table
CREATE INDEX idx_organization_name ON Organization (Organization_Name);
-- Create index for Organization_Phone table
CREATE INDEX idx_op_organization_id ON Organization_Phone (Organization_ID);
-- Create index for Player table
CREATE INDEX idx_player_name ON Player (Player_Name);

-- Create index for Player_Address table
CREATE INDEX idx_pa_player_id ON Player_Address (Player_ID);
-- Create index for Player_Social_Link table
CREATE INDEX idx_psl_player_id ON Player_Social_Link (Player_ID);
-- Create index for Player_Phone table
CREATE INDEX idx_pp_player_id ON Player_Phone (Player_ID);
-- Create index for Player_Winning table
CREATE INDEX idx_pw_player_id ON Player_Winning (Player_ID);
-- Create index for Record table
CREATE INDEX idx_record_date ON Record (Record_Date);

-- Create index for Tournament table
CREATE INDEX idx_tournament_name ON Tournament (Tournament_Name);
-- Create index for Game table
```

```
1  
2  
3  
4  
5  
6 CREATE INDEX idx_game_name ON Game (Game_Name);  
-- Create index for Company table  
CREATE INDEX idx_company_name ON Company (Company_Name);  
-- Create index for Company_Phone table  
CREATE INDEX idx_cp_company_id ON Company_Phone (Company_ID);  
-- Create index for Organization_Company table  
CREATE INDEX idx_oc_organization_id ON Organization_Company (Organization_ID);  
--
```

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## Index for Table

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```
-- Alter Manager table to add index
ALTER TABLE Manager ADD CONSTRAINT idx_manager_email UNIQUE (Manager_Email);
-- Alter Admin table to add index
ALTER TABLE Admin ADD CONSTRAINT idx_admin_email UNIQUE (Admin_Email);
-- Alter Manager_Phone table to add index
ALTER TABLE Manager_Phone ADD CONSTRAINT idx_manager_phone_manager_id UNIQUE (Manager_ID );
-- Alter Finance table to add index
ALTER TABLE Finance ADD CONSTRAINT idx_finance_manager_id UNIQUE (Manager_ID);
-- Alter Team table to add index
ALTER TABLE Team ADD CONSTRAINT idx_team_manager_id UNIQUE (Manager_ID);
-- Alter Team_Winning table to add index
ALTER TABLE Team_Winning ADD CONSTRAINT idx_team_winning_team_id UNIQUE (Team_ID);

-- Alter SocialMedia table to add index
ALTER TABLE SocialMedia ADD CONSTRAINT idx_socialmedia_name UNIQUE (SocialMedia_Name);
-- Alter ContentCreator table to add index
ALTER TABLE ContentCreator ADD CONSTRAINT idx_contentcreator_name UNIQUE (ContentCreator_Name);
-- Alter ContentCreator_SocialMedia table to add index
ALTER TABLE ContentCreator_SocialMedia ADD CONSTRAINT idx_ccs_contentcreator_id UNIQUE (ContentCreator_ID);
-- Alter ContentCreator_Address table to add index
ALTER TABLE ContentCreator_Address ADD CONSTRAINT idx_cca_contentcreator_id UNIQUE (ContentCreator_ID);
-- Alter ContentCreator_Phone table to add index
ALTER TABLE ContentCreator_Phone ADD CONSTRAINT idx_ccp_contentcreator_id UNIQUE (ContentCreator_ID);
-- Alter SocialMedia_Phone table to add index
ALTER TABLE SocialMedia_Phone ADD CONSTRAINT idx_smp_socialmedia_id UNIQUE (SocialMedia_ID);
-- Alter Organization table to add index
ALTER TABLE Organization ADD CONSTRAINT idx_organization_name UNIQUE (Organization_Name)
;
-- Alter Organization_Phone table to add index
ALTER TABLE Organization_Phone ADD CONSTRAINT idx_op_organization_id UNIQUE (Organization_ID);

-- Alter Player table to add index
ALTER TABLE Player ADD CONSTRAINT idx_player_name UNIQUE (Player_Name);
-- Alter Player_Address table to add index
ALTER TABLE Player_Address ADD CONSTRAINT idx_pa_player_id UNIQUE (Player_ID);
-- Alter Player_Social_Link table to add index
ALTER TABLE Player_Social_Link ADD CONSTRAINT idx_psl_player_id UNIQUE (Player_ID);
-- Alter Player_Phone table to add index
ALTER TABLE Player_Phone ADD CONSTRAINT idx_pp_player_id UNIQUE (Player_ID);
-- Alter Player_Winning table to add index
ALTER TABLE Player_Winning ADD CONSTRAINT idx_pw_player_id UNIQUE (Player_ID);
-- Alter Record table to add index
ALTER TABLE Record ADD CONSTRAINT idx_record_date UNIQUE (Record_Date);

-- Alter Tournament table to add index
ALTER TABLE Tournament ADD CONSTRAINT idx_tournament_name UNIQUE (Tournament_Name);
-- Alter Game table to add index
ALTER TABLE Game ADD CONSTRAINT idx_game_name UNIQUE (Game_Name);
```

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-- Alter Company table to add index  
ALTER TABLE Company ADD CONSTRAINT idx_company_name UNIQUE (Company_Name);  
-- Alter Company_Phone table to add index  
ALTER TABLE Company_Phone ADD CONSTRAINT idx_cp_company_id UNIQUE (Company_ID); -- Alter Organization_Company  
table to add index  
ALTER TABLE Organization_Company ADD CONSTRAINT idx_oc_organization_id UNIQUE (  
Organization_ID);  
--
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## 5.5 Alter Table for effective indexing

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Alter Table

## 5.6 Data Insertion

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```
INSERT INTO Admin (Admin_ID, Admin_Name, Admin_Email, Admin_Password, Admin_Picture)
VALUES (seq_admin_id.NEXTVAL, 'Admin 1', 'admin1@example.com', 'adminpass1', 'admin1.jpg');

INSERT INTO Admin (Admin_ID, Admin_Name, Admin_Email, Admin_Password, Admin_Picture)
VALUES (seq_admin_id.NEXTVAL, 'Admin 2', 'admin2@example.com', 'adminpass2', 'admin2.jpg');

INSERT INTO Admin (Admin_ID, Admin_Name, Admin_Email, Admin_Password, Admin_Picture)
VALUES (seq_admin_id.NEXTVAL, 'Admin 3', 'admin3@example.com', 'adminpass3', 'admin3.jpg');

INSERT INTO Admin (Admin_ID, Admin_Name, Admin_Email, Admin_Password, Admin_Picture)
VALUES (seq_admin_id.NEXTVAL, 'Admin 4', 'admin4@example.com', 'adminpass4', 'admin4.jpg');

INSERT INTO Admin (Admin_ID, Admin_Name, Admin_Email, Admin_Password, Admin_Picture)
VALUES (seq_admin_id.NEXTVAL, 'Admin 5', 'admin5@example.com', 'adminpass5', 'admin5.jpg');
```

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Inserting data into Admin table

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Results Explain Describe Saved SQL History

ADMIN_ID	ADMIN_NAME	ADMIN_EMAIL	ADMIN_PASSWORD	ADMIN_PICTURE
1	Admin 1	admin1@example.com	adminpass1	admin1.jpg
2	Admin 2	admin2@example.com	adminpass2	admin2.jpg
3	Admin 3	admin3@example.com	adminpass3	admin3.jpg
4	Admin 4	admin4@example.com	adminpass4	admin4.jpg
5	Admin 5	admin5@example.com	adminpass5	admin5.jpg

5 rows returned in 0.00 seconds

### Inserted data of Admin table 1

```
INSERT INTO Manager (Manager_ID, Manager_Name, Manager_Email, Manager_Password, Manager_Picture, Manager_Hiredate, Admin_ID)
VALUES (seq_manager_id.NEXTVAL, 'John Doe', 'john.doe@example.com', 'password123', 'profile.
jpg', TO_DATE('2022-01-01', 'YYYY-MM-DD'), 1);

INSERT INTO Manager (Manager_ID, Manager_Name, Manager_Email, Manager_Password, Manager_Picture, Manager_Hiredate, Admin_ID)
VALUES (seq_manager_id.NEXTVAL, 'Jane Smith', 'jane.smith@example.com', 'password456', 'profile2.jpg', TO_DATE('2022-02-01', 'YYYY-
MM-DD'), 2);

INSERT INTO Manager (Manager_ID, Manager_Name, Manager_Email, Manager_Password, Manager_Picture, Manager_Hiredate, Admin_ID)
VALUES (seq_manager_id.NEXTVAL, 'Mike Johnson', 'mike.johnson@example.com', 'password789', 'profile3.jpg', TO_DATE('2022-03-01',
'YYYY-MM-DD'), 1);

INSERT INTO Manager (Manager_ID, Manager_Name, Manager_Email, Manager_Password, Manager_Picture, Manager_Hiredate, Admin_ID)
VALUES (seq_manager_id.NEXTVAL, 'Sarah Williams', 'sarah.williams@example.com', 'password123
', 'profile4.jpg', TO_DATE('2022-04-01', 'YYYY-MM-DD'), 2);

INSERT INTO Manager (Manager_ID, Manager_Name, Manager_Email, Manager_Password, Manager_Picture, Manager_Hiredate, Admin_ID)
VALUES (seq_manager_id.NEXTVAL, 'Robert Davis', 'robert.davis@example.com', 'password456', 'profile5.jpg', TO_DATE('2022-05-01', 'YYYY-
MM-DD'), 1);
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## Inserting data into manager tables

Results Explain Describe Saved SQL History

MANAGER_ID	MANAGER_NAME	MANAGER_EMAIL	MANAGER_PASSWORD	MANAGER_PICTURE	MANAGER_HIREDATE	ADMIN_ID
1	John Doe	john.doe@example.com	password123	profile.jpg	01-JAN-22	1
2	Jane Smith	jane.smith@example.com	password456	profile2.jpg	01-FEB-22	2
3	Mike Johnson	mike.johnson@example.com	password789	profile3.jpg	01-MAR-22	1
4	Sarah Williams	sarah.williams@example.com	password123	profile4.jpg	01-APR-22	2
5	Robert Davis	robert.davis@example.com	password456	profile5.jpg	01-MAY-22	1

5 rows returned in 0.00 seconds

## Inserted data of manager table 1

```

1 INSERT INTO Manager_Phone (Mp_ID, Manager_ID, Manager_Phone) VALUES
(seq_mp_id.NEXTVAL, 1, '1234567890');

2 INSERT INTO Manager_Phone (Mp_ID, Manager_ID, Manager_Phone) VALUES
(seq_mp_id.NEXTVAL, 2, '0987654321');

3 INSERT INTO Manager_Phone (Mp_ID, Manager_ID, Manager_Phone) VALUES
(seq_mp_id.NEXTVAL, 3, '1112223333');

4 INSERT INTO Manager_Phone (Mp_ID, Manager_ID, Manager_Phone) VALUES
(seq_mp_id.NEXTVAL, 4, '4445556666');

5 INSERT INTO Manager_Phone (Mp_ID, Manager_ID, Manager_Phone)
VALUES (seq_mp_id.NEXTVAL, 5, '7778889999');

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## Inserting data into manager phone tables

Results Explain Describe Saved SQL History

MP_ID	MANAGER_ID	MANAGER_PHONE
1	1	1234567890
2	2	0987654321
3	3	1112223333
4	4	4445556666
5	5	7778889999

5 rows returned in 0.00 seconds

## Inserted data of manager phone table

```

1 INSERT INTO Finance (Finance_ID, Finance_Account_Number, Finance_Balance, Manager_ID)
2 VALUES (seq_finance_id.NEXTVAL, 'ABC123456', 10000, 1);
3
4 INSERT INTO Finance (Finance_ID, Finance_Account_Number, Finance_Balance, Manager_ID)

```

```

5 VALUES (seq_finance_id.NEXTVAL, 'DEF789012', 20000, 2);
6
7 INSERT INTO Finance (Finance_ID, Finance_Account_Number, Finance_Balance, Manager_ID)
8 VALUES (seq_finance_id.NEXTVAL, 'GHI345678', 15000, 3);
9
10 INSERT INTO Finance (Finance_ID, Finance_Account_Number, Finance_Balance, Manager_ID)
11 VALUES (seq_finance_id.NEXTVAL, 'JKL901234', 18000, 4);
12
13 INSERT INTO Finance (Finance_ID, Finance_Account_Number, Finance_Balance, Manager_ID)    14 VALUES (seq_finance_id.NEXTVAL,
'MN0567890', 22000, 5);

```

## Inserting data into Finance tables

Results	Explain	Describe	Saved SQL	History
FINANCE_ID	FINANCE_ACCOUNT_NUMBER	FINANCE_BALANCE	MANAGER_ID	
1	ABC123456	10000	1	
2	DEF789012	20000	2	
3	GHI345678	15000	3	
4	JKL901234	18000	4	
5	MN0567890	22000	5	

5 rows returned in 0.00 seconds

Inserted data of Finance table 1

```

INSERT INTO Team (Team_ID, Team_Name, Team_Icon, Team_Established_Date, Team_Country, Total_Price_Money, Manager_ID)
VALUES (seq_team_id.NEXTVAL, 'Team A', 'teamA.png', TO_DATE('2022-01-01', 'YYYY-MM-DD'), ' USA', 50000, 1);

INSERT INTO Team (Team_ID, Team_Name, Team_Icon, Team_Established_Date, Team_Country, Total_Price_Money, Manager_ID)
VALUES (seq_team_id.NEXTVAL, 'Team B', 'teamB.png', TO_DATE('2022-02-01', 'YYYY-MM-DD'), 'UK', 60000, 2);

INSERT INTO Team (Team_ID, Team_Name, Team_Icon, Team_Established_Date, Team_Country, Total_Price_Money, Manager_ID)
VALUES (seq_team_id.NEXTVAL, 'Team C', 'teamC.png', TO_DATE('2022-03-01', 'YYYY-MM-DD'), ' Australia', 45000, 3);

INSERT INTO Team (Team_ID, Team_Name, Team_Icon, Team_Established_Date, Team_Country, Total_Price_Money, Manager_ID)
VALUES (seq_team_id.NEXTVAL, 'Team D', 'teamD.png', TO_DATE('2022-04-01', 'YYYY-MM-DD'), ' Canada', 55000, 4);

INSERT INTO Team (Team_ID, Team_Name, Team_Icon, Team_Established_Date, Team_Country, Total_Price_Money, Manager_ID)
VALUES (seq_team_id.NEXTVAL, 'Team E', 'teamE.png', TO_DATE('2022-05-01', 'YYYY-MM-DD'), ' Germany', 70000, 5);

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## Inserting data into Team tables

Results						
	Explain	Describe	Saved SQL	History		
TEAM_ID	TEAM_NAME	TEAM_ICON	TEAM_ESTABLISHED_DATE	TEAM_COUNTRY	TOTAL_PRICE_MONEY	MANAGER_ID
1	Team A	teamA.png	01-JAN-22	USA	50000	1
2	Team B	teamB.png	01-FEB-22	UK	60000	2
3	Team C	teamC.png	01-MAR-22	Australia	45000	3
4	Team D	teamD.png	01-APR-22	Canada	55000	4
5	Team E	teamE.png	01-MAY-22	Germany	70000	5

5 rows returned in 0.00 seconds

## Inserted data of Team table 1

```
INSERT INTO Team_Winning (Tw_ID, Team_ID, Team_Winning) VALUES (seq_tw_id.NEXTVAL,  
1, 'Championship 2022');  
  
INSERT INTO Team_Winning (Tw_ID, Team_ID, Team_Winning) VALUES (seq_tw_id.NEXTVAL,  
2, 'Tournament 2023');  
  
INSERT INTO Team_Winning (Tw_ID, Team_ID, Team_Winning) VALUES (seq_tw_id.NEXTVAL,  
3, 'Cup 2022');  
  
INSERT INTO Team_Winning (Tw_ID, Team_ID, Team_Winning) VALUES (seq_tw_id.NEXTVAL,  
4, 'League 2022');  
  
INSERT INTO Team_Winning (Tw_ID, Team_ID, Team_Winning) VALUES (seq_tw_id.NEXTVAL,  
5, 'Championship 2023');
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## Inserting data into Team Winning tables

Results Explain Describe Saved SQL History

TW_ID	TEAM_ID	TEAM_WINNING
1	1	Championship 2022
2	2	Tournament 2023
3	3	Cup 2022
4	4	League 2022
5	5	Championship 2023

5 rows returned in 0.00 seconds

## Inserted data of Team Winning table 1

```

INSERT INTO SocialMedia (SocialMedia_ID, SocialMedia_Name, SocialMedia_Email,
SocialMedia_Password, SocialMedia_Picture, SocialMedia_Hiredate, SocialMedia_Salary, MANAGER_ID)
VALUES (seq_socialmedia_id.NEXTVAL, 'SocialMediaUser221', 'social.user1@example.com', 'socialpass1', 'social1.jpg', TO_DATE('2022-01-01',
'YYYY-MM-DD'), 5000, 1);

INSERT INTO SocialMedia (SocialMedia_ID, SocialMedia_Name, SocialMedia_Email,
SocialMedia_Password, SocialMedia_Picture, SocialMedia_Hiredate, SocialMedia_Salary, MANAGER_ID)
VALUES (seq_socialmedia_id.NEXTVAL, 'SocialMediaUser442', 'social.user2@example.com', 'socialpass2', 'social2.jpg', TO_DATE('2022-02-01',
'YYYY-MM-DD'), 6000, 2);

INSERT INTO SocialMedia (SocialMedia_ID, SocialMedia_Name, SocialMedia_Email,
SocialMedia_Password, SocialMedia_Picture, SocialMedia_Hiredate, SocialMedia_Salary, MANAGER_ID)
VALUES (seq_socialmedia_id.NEXTVAL, 'SocialMediaUser423', 'social.user3@example.com', 'socialpass3', 'social3.jpg', TO_DATE('2022-03-01',
'YYYY-MM-DD'), 7000, 3);

INSERT INTO SocialMedia (SocialMedia_ID, SocialMedia_Name, SocialMedia_Email,
SocialMedia_Password, SocialMedia_Picture, SocialMedia_Hiredate, SocialMedia_Salary, MANAGER_ID)
VALUES (seq_socialmedia_id.NEXTVAL, 'SocialMediaUser4234', 'social.user4@example.com', 'socialpass4', 'social4.jpg', TO_DATE('2022-04-
01', 'YYYY-MM-DD'), 8000, 4);

INSERT INTO SocialMedia (SocialMedia_ID, SocialMedia_Name, SocialMedia_Email,
SocialMedia_Password, SocialMedia_Picture, SocialMedia_Hiredate, SocialMedia_Salary, MANAGER_ID)
VALUES (seq_socialmedia_id.NEXTVAL, 'SocialMediaUser5523', 'social.user5@example.com', 'socialpass5', 'social5.jpg', TO_DATE('2022-05-
01', 'YYYY-MM-DD'), 9000, 5);

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## Inserting data into SocialMedia tables

<a href="#">Results</a> <a href="#">Explain</a> <a href="#">Describe</a> <a href="#">Saved SQL</a> <a href="#">History</a>							
SOCIALMEDIA_ID	SOCIALMEDIA_NAME	SOCIALMEDIA_EMAIL	SOCIALMEDIA_PASSWORD	SOCIALMEDIA_PICTURE	SOCIALMEDIA_HIREDATE	SOCIALMEDIA_SALARY	MANAGER_ID
1	SocialMediaUser221	social.user1@example.com	socialpass1	social1.jpg	01-JAN-22	5000	1
2	SocialMediaUser442	social.user2@example.com	socialpass2	social2.jpg	01-FEB-22	6000	2
3	SocialMediaUser423	social.user3@example.com	socialpass3	social3.jpg	01-MAR-22	7000	3
4	SocialMediaUser4234	social.user4@example.com	socialpass4	social4.jpg	01-APR-22	8000	4
5	SocialMediaUser5523	social.user5@example.com	socialpass5	social5.jpg	01-MAY-22	9000	5

5 rows returned in 0.00 seconds

### Inserted data of Social Media table

1

```

INSERT INTO ContentCreator (ContentCreator_ID, ContentCreator_Name, ContentCreator_Email,
    ContentCreator_Password, ContentCreator_Picture, ContentCreator_Hiredate, ContentCreator_Salary, SOCIALMEDIA_ID)
VALUES (seq_contentcreator_id.NEXTVAL, 'ContentCreator 1', 'cc1@example.com', 'ccpass1', 'cc1.jpg', TO_DATE('2022-01-01', 'YYYY-MM-DD'), 3000, 1)

INSERT INTO ContentCreator (ContentCreator_ID, ContentCreator_Name, ContentCreator_Email,
    ContentCreator_Password, ContentCreator_Picture, ContentCreator_Hiredate, ContentCreator_Salary, SOCIALMEDIA_ID)
VALUES (seq_contentcreator_id.NEXTVAL, 'ContentCreator 2', 'cc2@example.com', 'ccpass2', 'cc2.jpg', TO_DATE('2022-02-01', 'YYYY-MM-DD'), 3500, 2)

INSERT INTO ContentCreator (ContentCreator_ID, ContentCreator_Name, ContentCreator_Email,
    ContentCreator_Password, ContentCreator_Picture, ContentCreator_Hiredate, ContentCreator_Salary, SOCIALMEDIA_ID)
VALUES (seq_contentcreator_id.NEXTVAL, 'ContentCreator 3', 'cc3@example.com', 'ccpass3', 'cc3.jpg', TO_DATE('2022-03-01', 'YYYY-MM-DD'), 4000, 3)

INSERT INTO ContentCreator (ContentCreator_ID, ContentCreator_Name, ContentCreator_Email,
    ContentCreator_Password, ContentCreator_Picture, ContentCreator_Hiredate, ContentCreator_Salary, SOCIALMEDIA_ID)
VALUES (seq_contentcreator_id.NEXTVAL, 'ContentCreator 4', 'cc4@example.com', 'ccpass4', 'cc4.jpg', TO_DATE('2022-04-01', 'YYYY-MM-DD'), 4500, 4)

INSERT INTO ContentCreator (ContentCreator_ID, ContentCreator_Name, ContentCreator_Email,
    ContentCreator_Password, ContentCreator_Picture, ContentCreator_Hiredate, ContentCreator_Salary, SOCIALMEDIA_ID)
VALUES (seq_contentcreator_id.NEXTVAL, 'ContentCreator 5', 'cc5@example.com', 'ccpass5', 'cc5.jpg', TO_DATE('2022-05-01', 'YYYY-MM-DD'), 5000, 5)

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## Inserting data into ContentCreator tables

Results	Explain	Describe	Saved SQL	History			
CONTENTCREATOR_ID	CONTENTCREATOR_NAME	CONTENTCREATOR_EMAIL	CONTENTCREATOR_PASSWORD	CONTENTCREATOR_PICTURE	CONTENTCREATOR_HIREDATE	CONTENTCREATOR_SALARY	SOCIALMEDIA_ID
1	ContentCreator 1	cc1@example.com	cpassword1	cc1.jpg	01-JAN-22	3000	1
2	ContentCreator 2	cc2@example.com	cpassword2	cc2.jpg	01-FEB-22	3500	2
3	ContentCreator 3	cc3@example.com	cpassword3	cc3.jpg	01-MAR-22	4000	3
4	ContentCreator 4	cc4@example.com	cpassword4	cc4.jpg	01-APR-22	4500	4
5	ContentCreator 5	cc5@example.com	cpassword5	cc5.jpg	01-MAY-22	5000	5

5 rows returned in 0.00 seconds

### Inserted data of Content Creator table 1

```
1 INSERT INTO ContentCreator_SocialMedia (Ccs_ID, ContentCreator_ID,
2   ContentCreator_Facebook_Link, ContentCreator_Twitter_Link, ContentCreator_Instagram_Link , ContentCreator_Youtube_Link)
3 VALUES (seq_ccs_id.NEXTVAL, 1, 'https://facebook.com/cc1', 'https://twitter.com/cc1', 'https://instagram.com/cc1',
4   'https://youtube.com/cc1');
```

```
1 INSERT INTO ContentCreator_SocialMedia (Ccs_ID, ContentCreator_ID,
2   ContentCreator_Facebook_Link, ContentCreator_Twitter_Link, ContentCreator_Instagram_Link , ContentCreator_Youtube_Link)
3 VALUES (seq_ccs_id.NEXTVAL, 2, 'https://facebook.com/cc2', 'https://twitter.com/cc2', 'https://instagram.com/cc2',
4   'https://youtube.com/cc2');
```

```
1 INSERT INTO ContentCreator_SocialMedia (Ccs_ID, ContentCreator_ID,
2   ContentCreator_Facebook_Link, ContentCreator_Twitter_Link, ContentCreator_Instagram_Link , ContentCreator_Youtube_Link)
3 VALUES (seq_ccs_id.NEXTVAL, 3, 'https://facebook.com/cc3', 'https://twitter.com/cc3', 'https://instagram.com/cc3',
4   'https://youtube.com/cc3');
```

```
1 INSERT INTO ContentCreator_SocialMedia (Ccs_ID, ContentCreator_ID,
2   ContentCreator_Facebook_Link, ContentCreator_Twitter_Link, ContentCreator_Instagram_Link , ContentCreator_Youtube_Link)
3 VALUES (seq_ccs_id.NEXTVAL, 4, 'https://facebook.com/cc4', 'https://twitter.com/cc4', 'https://instagram.com/cc4',
4   'https://youtube.com/cc4');
```

```
1 INSERT INTO ContentCreator_SocialMedia (Ccs_ID, ContentCreator_ID,
2   ContentCreator_Facebook_Link, ContentCreator_Twitter_Link, ContentCreator_Instagram_Link , ContentCreator_Youtube_Link)
3 VALUES (seq_ccs_id.NEXTVAL, 5, 'https://facebook.com/cc5', 'https://twitter.com/cc5', 'https://instagram.com/cc5',
4   'https://youtube.com/cc5');
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## Inserting data into ContentCreator\_SocialMedia tables

Results	Explain	Describe	Saved SQL	History	
CCS_ID	CONTENTCREATOR_ID	CONTENTCREATOR_FACEBOOK_LINK	CONTENTCREATOR_TWITTER_LINK	CONTENTCREATOR_INSTAGRAM_LINK	CONTENTCREATOR_YOUTUBE_LINK
1	1	https://facebook.com/cc1	https://twitter.com/cc1	https://instagram.com/cc1	https://youtube.com/cc1
2	2	https://facebook.com/cc2	https://twitter.com/cc2	https://instagram.com/cc2	https://youtube.com/cc2
3	3	https://facebook.com/cc3	https://twitter.com/cc3	https://instagram.com/cc3	https://youtube.com/cc3
4	4	https://facebook.com/cc4	https://twitter.com/cc4	https://instagram.com/cc4	https://youtube.com/cc4
5	5	https://facebook.com/cc5	https://twitter.com/cc5	https://instagram.com/cc5	https://youtube.com/cc5

5 rows returned in 0.00 seconds

## Inserted data of Content Creator Social Media table

```

1 INSERT INTO ContentCreator_Address (Cca_ID, ContentCreator_ID, ContentCreator_Country,
ContentCreator_City, ContentCreator_Street, ContentCreator_Zip_Code) 2 VALUES (seq_cca_id.NEXTVAL,
1, 'USA', 'New York', '123 Street', '10001');
3
4 INSERT INTO ContentCreator_Address (Cca_ID, ContentCreator_ID, ContentCreator_Country,
ContentCreator_City, ContentCreator_Street, ContentCreator_Zip_Code) 5 VALUES (seq_cca_id.NEXTVAL, 2,
'USA', 'Los Angeles', '456 Avenue', '90001');
6
7 INSERT INTO ContentCreator_Address (Cca_ID, ContentCreator_ID, ContentCreator_Country,
ContentCreator_City, ContentCreator_Street, ContentCreator_Zip_Code)
VALUES (seq_cca_id.NEXTVAL, 3, 'UK', 'London', '789 Road', 'SW1A 1AA');
9
10 INSERT INTO ContentCreator_Address (Cca_ID, ContentCreator_ID, ContentCreator_Country,
ContentCreator_City, ContentCreator_Street, ContentCreator_Zip_Code) 11 VALUES (seq_cca_id.NEXTVAL, 4,
'Canada', 'Toronto', '321 Boulevard', 'M5V 2T3');
12
13 INSERT INTO ContentCreator_Address (Cca_ID, ContentCreator_ID, ContentCreator_Country, ContentCreator_City, ContentCreator_Street,
ContentCreator_Zip_Code)
14VALUES (seq_cca_id.NEXTVAL, 5, 'Germany', 'Berlin', '987 Strasse', '12345');
```

## Inserting data into ContentCreator Address tables

Results	Explain	Describe	Saved SQL	History	
CCA_ID	CONTENTCREATOR_ID	CONTENTCREATOR_COUNTRY	CONTENTCREATOR_CITY	CONTENTCREATOR_STREET	CONTENTCREATOR_ZIP_CODE
1	1	USA	New York	123 Street	10001
2	2	USA	Los Angeles	456 Avenue	90001
3	3	UK	London	789 Road	SW1A 1AA
4	4	Canada	Toronto	321 Boulevard	M5V 2T3
5	5	Germany	Berlin	987 Strasse	12345

5 rows returned in 0.00 seconds

## Inserted data of Content Creator Address table 1

```
INSERT INTO ContentCreator_Phone (Ccp_ID, ContentCreator_ID, ContentCreator_Phone) VALUES (seq_ccp_id.NEXTVAL, 1, '9876543210');

INSERT INTO ContentCreator_Phone (Ccp_ID, ContentCreator_ID, ContentCreator_Phone) VALUES (seq_ccp_id.NEXTVAL, 2, '1234567890');

INSERT INTO ContentCreator_Phone (Ccp_ID, ContentCreator_ID, ContentCreator_Phone) VALUES (seq_ccp_id.NEXTVAL, 3, '5551234567');

INSERT INTO ContentCreator_Phone (Ccp_ID, ContentCreator_ID, ContentCreator_Phone) VALUES (seq_ccp_id.NEXTVAL, 4, '7775558888');

INSERT INTO ContentCreator_Phone (Ccp_ID, ContentCreator_ID, ContentCreator_Phone)
VALUES (seq_ccp_id.NEXTVAL, 5, '9990001111');
```

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## Inserting data into ContentCreator Phone tables

Results		
	Explain	Describe
CCP_ID	CONTENTCREATOR_ID	CONTENTCREATOR_PHONE
1	1	9876543210
2	2	1234567890
3	3	5551234567
4	4	7775558888
5	5	9990001111

5 rows returned in 0.00 seconds

## Inserted data of Content Creator Phone table 1

```
INSERT INTO SocialMedia_Phone (Smp_ID, SocialMedia_ID, SocialMedia_Phone) VALUES (seq_smp_id.NEXTVAL, 1, '5551234567');

INSERT INTO SocialMedia_Phone (Smp_ID, SocialMedia_ID, SocialMedia_Phone) VALUES (seq_smp_id.NEXTVAL, 2, '6669876543');

INSERT INTO SocialMedia_Phone (Smp_ID, SocialMedia_ID, SocialMedia_Phone) VALUES (seq_smp_id.NEXTVAL, 3, '7774561230');

INSERT INTO SocialMedia_Phone (Smp_ID, SocialMedia_ID, SocialMedia_Phone) VALUES (seq_smp_id.NEXTVAL, 4, '8887890123');

INSERT INTO SocialMedia_Phone (Smp_ID, SocialMedia_ID, SocialMedia_Phone)
VALUES (seq_smp_id.NEXTVAL, 5, '9996547890');
```

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## Inserting data into SocialMedia Phone tables

Results			
Explain    Describe    Saved SQL    History			
SMP_ID	SOCIALMEDIA_ID	SOCIALMEDIA_PHONE	
1	1	5551234567	
2	2	6669876543	
3	3	7774561230	
4	4	8887890123	
5	5	9996547890	

5 rows returned in 0.00 seconds

## Inserted data of Social Media Phone table 1

```
INSERT INTO Organization (Organization_ID, Organization_Name, Organization_Email,
    Organization_Password, Organization_Picture, Organization_Phone, Finance_ID)
VALUES (seq_organization_id.NEXTVAL, 'Organization XYZ', 'info@xyz.com', 'orgpass', 'org.jpg', '1234567890', 1);

INSERT INTO Organization (Organization_ID, Organization_Name, Organization_Email,
    Organization_Password, Organization_Picture, Organization_Phone, Finance_ID)
VALUES (seq_organization_id.NEXTVAL, 'Organization ABC', 'info@abc.com', 'orgpass', 'org2.
    jpg', '0987654321', 2);

INSERT INTO Organization (Organization_ID, Organization_Name, Organization_Email,
    Organization_Password, Organization_Picture, Organization_Phone, Finance_ID)
VALUES (seq_organization_id.NEXTVAL, 'Organization DEF', 'info@def.com', 'orgpass', 'org3.
    jpg', '1112223333', 3);

INSERT INTO Organization (Organization_ID, Organization_Name, Organization_Email,
    Organization_Password, Organization_Picture, Organization_Phone, Finance_ID)
VALUES (seq_organization_id.NEXTVAL, 'Organization GHI', 'info@ghi.com', 'orgpass', 'org4.
    jpg', '4445556666', 4);

INSERT INTO Organization (Organization_ID, Organization_Name, Organization_Email,
    Organization_Password, Organization_Picture, Organization_Phone, Finance_ID)
VALUES (seq_organization_id.NEXTVAL, 'Organization JKL', 'info@jkl.com', 'orgpass', 'org5.
    jpg', '7778889999', 5);
```

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## Inserting data into Organization tables

Results	Explain	Describe	Saved SQL	History		
ORGANIZATION_ID	ORGANIZATION_NAME	ORGANIZATION_EMAIL	ORGANIZATION_PASSWORD	ORGANIZATION_PICTURE	ORGANIZATION_PHONE	FINANCE_ID
1	Organization XYZ	info@xyz.com	orgpass	org.jpg	1234567890	1
2	Organization ABC	info@abc.com	orgpass	org2.jpg	0987654321	2
3	Organization DEF	info@def.com	orgpass	org3.jpg	1112223333	3
4	Organization GHI	info@ghi.com	orgpass	org4.jpg	4445556666	4
5	Organization JKL	info@jkl.com	orgpass	org5.jpg	7778889999	5

5 rows returned in 0.00 seconds

### Inserted data of Organization table 1

```

INSERT INTO Organization_Phone (Op_ID, Organization_ID, Organization_Phone) VALUES (seq_op_id.NEXTVAL, 1,
'9998887777');

INSERT INTO Organization_Phone (Op_ID, Organization_ID, Organization_Phone) VALUES (seq_op_id.NEXTVAL, 2,
'8887776666');

INSERT INTO Organization_Phone (Op_ID, Organization_ID, Organization_Phone) VALUES (seq_op_id.NEXTVAL, 3,
'7776665555');

INSERT INTO Organization_Phone (Op_ID, Organization_ID, Organization_Phone) VALUES (seq_op_id.NEXTVAL, 4,
'6665554444');

INSERT INTO Organization_Phone (Op_ID, Organization_ID, Organization_Phone)
VALUES (seq_op_id.NEXTVAL, 5, '5554443333');

```

## Inserting data into Organization Phone tables

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Results	Explain	Describe	Saved SQL	History
OP_ID	ORGANIZATION_ID	ORGANIZATION_PHONE		
1	1	9998887777		
2	2	8887776666		
3	3	7776665555		
4	4	6665554444		
5	5	5554443333		

5 rows returned in 0.00 seconds

## Inserted data of Organization Phone table

```

1 INSERT INTO Player (Player_ID, Player_Name, Player_Email, Player_Password, Player_Picture,
2     Player_JoinDate, Player_Salary, Player_Play_Hours, Player_DOB)
3 VALUES (seq_player_id.NEXTVAL, 'Player 1', 'player1@example.com', 'playerpass', 'player1.jpg'
4     , TO_DATE('2022-01-01', 'YYYY-MM-DD'), 5000, 100, TO_DATE('1990-01-01', 'YYYY-MM-DD'));
5
6 INSERT INTO Player (Player_ID, Player_Name, Player_Email, Player_Password, Player_Picture,
7     Player_JoinDate, Player_Salary, Player_Play_Hours, Player_DOB)
8 VALUES (seq_player_id.NEXTVAL, 'Player 2', 'player2@example.com', 'playerpass', 'player2.jpg'
9     , TO_DATE('2022-02-01', 'YYYY-MM-DD'), 6000, 200, TO_DATE('1992-05-10', 'YYYY-MM-DD'));
10
11 INSERT INTO Player (Player_ID, Player_Name, Player_Email, Player_Password, Player_Picture,
12     Player_JoinDate, Player_Salary, Player_Play_Hours, Player_DOB)
13 VALUES (seq_player_id.NEXTVAL, 'Player 3', 'player3@example.com', 'playerpass', 'player3.jpg'
14     , TO_DATE('2022-03-01', 'YYYY-MM-DD'), 7000, 150, TO_DATE('1994-09-20', 'YYYY-MM-DD'));
15
16 INSERT INTO Player (Player_ID, Player_Name, Player_Email, Player_Password, Player_Picture,
17     Player_JoinDate, Player_Salary, Player_Play_Hours, Player_DOB)
18 VALUES (seq_player_id.NEXTVAL, 'Player 4', 'player4@example.com', 'playerpass', 'player4.jpg'
19     , TO_DATE('2022-04-01', 'YYYY-MM-DD'), 8000, 120, TO_DATE('1996-12-05', 'YYYY-MM-DD'));
20
21 INSERT INTO Player (Player_ID, Player_Name, Player_Email, Player_Password, Player_Picture,
22     Player_JoinDate, Player_Salary, Player_Play_Hours, Player_DOB)
23 VALUES (seq_player_id.NEXTVAL, 'Player 5', 'player5@example.com', 'playerpass', 'player5.jpg'
24     , TO_DATE('2022-05-01', 'YYYY-MM-DD'), 9000, 180, TO_DATE('1998-03-15', 'YYYY-MM-DD'));
25

```

## Inserting data into Player tables

Results	Explain	Describe	Saved SQL	History					
PLAYER_ID	PLAYER_NAME	PLAYER_EMAIL	PLAYER_PASSWORD	PLAYER_PICTURE	PLAYER_JOINDATE	PLAYER_SALARY	PLAYER_PLAY_HOURS	PLAYER_DOB	
1	Player 1	player1@example.com	playerpass	player1.jpg	01-JAN-22	5000	100	01-JAN-90	
2	Player 2	player2@example.com	playerpass	player2.jpg	01-FEB-22	6000	200	10-MAY-92	
3	Player 3	player3@example.com	playerpass	player3.jpg	01-MAR-22	7000	150	20-SEP-94	
4	Player 4	player4@example.com	playerpass	player4.jpg	01-APR-22	8000	120	05-DEC-96	
5	Player 5	player5@example.com	playerpass	player5.jpg	01-MAY-22	9000	180	15-MAR-98	

5 rows returned in 0.00 seconds

## Inserted data of Player table 1

```

INSERT INTO Player_Address (Pa_ID, Player_ID, Player_Country, Player_City, Player_Street, Player_Zip_Code)
VALUES (seq_pa_id.NEXTVAL, 1, 'USA', 'New York', '123 Street', '10001');
INSERT INTO Player_Address (Pa_ID, Player_ID, Player_Country, Player_City, Player_Street, Player_Zip_Code)
VALUES (seq_pa_id.NEXTVAL, 2, 'USA', 'Los Angeles', '456 Avenue', '90001');
INSERT INTO Player_Address (Pa_ID, Player_ID, Player_Country, Player_City, Player_Street, Player_Zip_Code)
VALUES (seq_pa_id.NEXTVAL, 3, 'UK', 'London', '789 Road', 'SW1A 1AA');
INSERT INTO Player_Address (Pa_ID, Player_ID, Player_Country, Player_City, Player_Street, Player_Zip_Code)
VALUES (seq_pa_id.NEXTVAL, 4, 'Canada', 'Toronto', '321 Boulevard', 'MSV 2T3');
INSERT INTO Player_Address (Pa_ID, Player_ID, Player_Country, Player_City, Player_Street, Player_Zip_Code)
VALUES (seq_pa_id.NEXTVAL, 5, 'Germany', 'Berlin', '987 Strasse', '12345');

```

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10

## Inserting data into Player Address tables

PA_ID	PLAYER_ID	PLAYER_COUNTRY	PLAYER_CITY	PLAYER_STREET	PLAYER_ZIP_CODE
1	1	USA	New York	123 Street	10001
2	2	USA	Los Angeles	456 Avenue	90001
3	3	UK	London	789 Road	SW1A 1AA
4	4	Canada	Toronto	321 Boulevard	MSV 2T3
5	5	Germany	Berlin	987 Strasse	12345

5 rows returned in 0.00 seconds

## Inserted data of Player Address table

```
1 INSERT INTO PLAYER_SOCIAL_LINK (Psl_ID, Player_ID, Player_Facebook_Link,
2                                 Player_Instagram_Link, Player_Twitter_Link, Player_Youtube_Link)
3 VALUES (seq_psl_id.NEXTVAL, 1, 'https://facebook.com/player1', 'https://instagram.com/ player1', 'https://twitter.com/player1',
4         'https://youtube.com/player1');
5
6 INSERT INTO PLAYER_SOCIAL_LINK (Psl_ID, Player_ID, Player_Facebook_Link,
7                                 Player_Instagram_Link, Player_Twitter_Link, Player_Youtube_Link)
8 VALUES (seq_psl_id.NEXTVAL, 2, 'https://facebook.com/player2', 'https://instagram.com/ player2', 'https://twitter.com/player2',
9         'https://youtube.com/player2');
10
11 INSERT INTO PLAYER_SOCIAL_LINK (Psl_ID, Player_ID, Player_Facebook_Link,
12                                Player_Instagram_Link, Player_Twitter_Link, Player_Youtube_Link)
13 VALUES (seq_psl_id.NEXTVAL, 3, 'https://facebook.com/player3', 'https://instagram.com/ player3', 'https://twitter.com/player3',
14         'https://youtube.com/player3');
15
16 INSERT INTO PLAYER_SOCIAL_LINK (Psl_ID, Player_ID, Player_Facebook_Link,
17                                 Player_Instagram_Link, Player_Twitter_Link, Player_Youtube_Link)
18 VALUES (seq_psl_id.NEXTVAL, 4, 'https://facebook.com/player4', 'https://instagram.com/ player4', 'https://twitter.com/player4',
19         'https://youtube.com/player4');
20
21 INSERT INTO PLAYER_SOCIAL_LINK (Psl_ID, Player_ID, Player_Facebook_Link,
22                                 Player_Instagram_Link, Player_Twitter_Link, Player_Youtube_Link)
23 VALUES (seq_psl_id.NEXTVAL, 5, 'https://facebook.com/player5', 'https://instagram.com/ player5', 'https://twitter.com/player5',
24         'https://youtube.com/player5');
```

## Inserting data into Player SocialLink tables

PSL_ID	PLAYER_ID	PLAYER_FACEBOOK_LINK	PLAYER_INSTAGRAM_LINK	PLAYER_TWITTER_LINK	PLAYER_YOUTUBE_LINK
1	1	https://facebook.com/player1	https://instagram.com/player1	https://twitter.com/player1	https://youtube.com/player1
2	2	https://facebook.com/player2	https://instagram.com/player2	https://twitter.com/player2	https://youtube.com/player2
3	3	https://facebook.com/player3	https://instagram.com/player3	https://twitter.com/player3	https://youtube.com/player3
4	4	https://facebook.com/player4	https://instagram.com/player4	https://twitter.com/player4	https://youtube.com/player4
5	5	https://facebook.com/player5	https://instagram.com/player5	https://twitter.com/player5	https://youtube.com/player5

5 rows returned in 0.00 seconds

## Inserted data of Player Social Link table 1

```

1  INSERT INTO Player_Phone (Pp_ID, Player_ID, Player_Phone) VALUES
2  (seq_pp_id.NEXTVAL, 1, '1112223333');
3
4  INSERT INTO Player_Phone (Pp_ID, Player_ID, Player_Phone) VALUES
5  (seq_pp_id.NEXTVAL, 2, '2223334444');
6
7  INSERT INTO Player_Phone (Pp_ID, Player_ID, Player_Phone) VALUES
8  (seq_pp_id.NEXTVAL, 3, '3334445555');
9
10 INSERT INTO Player_Phone (Pp_ID, Player_ID, Player_Phone) VALUES
11 (seq_pp_id.NEXTVAL, 4, '4445556666');
12
13 INSERT INTO Player_Phone (Pp_ID, Player_ID, Player_Phone)
14 VALUES (seq_pp_id.NEXTVAL, 5, '5556667777');

```

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## Inserting data into Player -Phone tables

Results			Explain	Describe	Saved SQL	History
PP_ID	PLAYER_ID	PLAYER_PHONE				
1	1	1112223333				
2	2	2223334444				
3	3	3334445555				
4	4	4445556666				
5	5	5556667777				

5 rows returned in 0.00 seconds

## Inserted data of PlayerPhonetable

1

```

1  INSERT INTO Player_Winning (Pw_ID, Player_ID, Player_Winning) VALUES (seq_pw_id.NEXTVAL, 1,
2  'Tournament 2022');
3
4  INSERT INTO Player_Winning (Pw_ID, Player_ID, Player_Winning) VALUES (seq_pw_id.NEXTVAL, 2,
5  'Championship 2023');
6
7  INSERT INTO Player_Winning (Pw_ID, Player_ID, Player_Winning) VALUES (seq_pw_id.NEXTVAL, 3, 'Cup
8  2022');
9
10 INSERT INTO Player_Winning (Pw_ID, Player_ID, Player_Winning) VALUES (seq_pw_id.NEXTVAL, 4,
11 'Tournament 2023');
12
13 INSERT INTO Player_Winning (Pw_ID, Player_ID, Player_Winning)
14 VALUES (seq_pw_id.NEXTVAL, 5, 'League 2022');

```

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12  
  
13  
14
```

## Inserting data into Player Winning tables

Results			Explain	Describe	Saved SQL	History
PW_ID	PLAYER_ID	PLAYER_WINNING				
1	1	Tournament 2022				
2	2	Championship 2023				
3	3	Cup 2022				
4	4	Tournament 2023				
5	5	League 2022				

5 rows returned in 0.00 seconds

## Inserted data of Player Winning table 1

```
1 INSERT INTO Player_Team (Pt_ID, Player_ID, Team_ID) VALUES  
2 (seq_pt_id.NEXTVAL, 1, 1);  
  
3 INSERT INTO Player_Team (Pt_ID, Player_ID, Team_ID) VALUES  
4 (seq_pt_id.NEXTVAL, 2, 2);  
  
5 INSERT INTO Player_Team (Pt_ID, Player_ID, Team_ID) VALUES  
6 (seq_pt_id.NEXTVAL, 3, 3);  
  
7 INSERT INTO Player_Team (Pt_ID, Player_ID, Team_ID) VALUES  
8 (seq_pt_id.NEXTVAL, 4, 4);  
  
9 INSERT INTO Player_Team (Pt_ID, Player_ID, Team_ID)  
10 VALUES (seq_pt_id.NEXTVAL, 5, 5);
```

```
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9  
10  
11  
12
```

```
13  
14
```

## Inserting data into Player Team tables

Results Explain Describe Saved SQL History

PT_ID	PLAYER_ID	TEAM_ID
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5

5 rows returned in 0.00 seconds

Inserted data of Player Team table

## 5.7 Single Row Functions

Retrieve the email domain for the admin with Admin ID = 1

```
1
SELECT Admin_Email, SUBSTR(Admin_Email, INSTR(Admin_Email, '@') + 1) AS Email_Domain
FROM Admin
WHERE Admin_ID = 1;
```

```
2
3
```

Query 1

Results	Explain	Describe	Saved SQL	History
		ADMIN_EMAIL	EMAIL_DOMAIN	
		admin1@example.com	example.com	
1 rows returned in 0.00 seconds				<a href="#">Download</a>

Result of Query 1

Get the hire date of the manager named 'John Doe' formatted in a specific way

```
1
SELECT Manager_Name, TO_CHAR(Manager_Hiredate, 'DD-Mon - YYYY') AS Hire_Date
FROM Manager
WHERE Manager_Name = 'John Doe';
```

```
2
3
```

Query 2

Results	Explain	Describe	Saved SQL	History
		MANAGER_NAME	HIRE_DATE	
		John Doe	01-Jan-2022	
1 rows returned in 0.00 seconds				<a href="#">Download</a>

Result of Query 2

Concatenate the first and last name of the content creator with ContentCreator ID = 1

```
1
SELECT ContentCreator_Name, CONCAT(CONCAT(SUBSTR(ContentCreator_Name, 1, INSTR(
ContentCreator_Name, ' ') - 1), ' '), SUBSTR(ContentCreator_Name, INSTR(
ContentCreator_Name, ' ') + 1)) AS Full_Name
FROM ContentCreator
WHERE ContentCreator_ID = 1;
```

```
2
3
```

### Query 3

Results		Explain	Describe	Saved SQL	History
CONTENTCREATOR_NAME				FULL_NAME	
ContentCreator 1				ContentCreator 1	
1 rows returned in 0.00 seconds				<a href="#">Download</a>	

Result of Query 3

## 5.8 Group Functions

---

Calculate the average balance for all finance records

1  
SELECT AVG(Finance\_Balance) AS Average\_Balance  
FROM Finance;

2

### Query 1

Results		Explain	Describe	Saved SQL	History
AVERAGE_BALANCE					
17000					
1 rows returned in 0.00 seconds				<a href="#">Download</a>	

Result of Query 1

Count the number of teams established in each country

1  
SELECT Team\_Country, COUNT(\*) AS Team\_Count  
FROM Team  
GROUP BY Team\_Country;

2  
3

### Query 2

Results		Explain	Describe	Saved SQL	History
TEAM_COUNTRY				TEAM_COUNT	
USA				1	
Germany				1	
Australia				1	
Canada				1	
UK				1	
5 rows returned in 0.10 seconds				<a href="#">Download</a>	

Result of Query 2

1  
2  
3

---

Calculate the total salary expense for content creators

1  
  
2

```
SELECT SUM(ContentCreator_Salary) AS Total_Salary_Expense
FROM ContentCreator;
```

### Query 3

Results	Explain	Describe	Saved SQL	History
TOTAL_SALARY_EXPENSE				
20000				
1 rows returned in 0.00 seconds <a href="#">Download</a>				

Result of Query 3

## 5.9 SubQuery

Retrieve the managers associated with teams established before a specific date

4  
5  
  
6  
7

```
SELECT Manager_Name
FROM Manager
WHERE Manager_ID IN (
    SELECT Manager_ID
    FROM Team
    WHERE Team_Established_Date < TO_DATE('2022-03-01', 'YYYY-MM-DD')
);
```

### Query 1

Results	Explain	Describe	Saved SQL	History
MANAGER_NAME				
John Doe				
Jane Smith				
2 rows returned in 0.00 seconds <a href="#">Download</a>				

Result of Query 1

Get the content creators who have a higher salary than the average salary of all content creators

1

```
SELECT ContentCreator_Name
FROM ContentCreator
WHERE ContentCreator_Salary > (
    SELECT AVG(ContentCreator_Salary)
    FROM ContentCreator
);
```

2

3

4

5

6

## Query 2

Results Explain Describe Saved SQL History

### CONTENTCREATOR\_NAME

ContentCreator 4

ContentCreator 5

2 rows returned in 0.00 seconds    Download

## Result of Query 2

Retrieve the teams managed by managers who have won a championship 1

```
SELECT Team_Name
FROM Team
WHERE Manager_ID IN (
    SELECT Manager_ID
    FROM Manager
    WHERE Manager_ID IN (
        SELECT DISTINCT Manager_ID
        FROM Team_Winning
        WHERE Team_Winning LIKE '%Championship%'
    )
);
```

2

3

4

5

6

7

8

9

10

11

## Query 3

1  
2  
3

Results	Explain	Describe	Saved SQL	History
<b>TEAM_NAME</b>				
Team A				
Team B				
Team D				
Team E				
Team C				

5 rows returned in 0.15 seconds    [Download](#)

### Result of Query 3

## 5.10 Join Queries

Get the team name and manager name for each team

```
SELECT t.Team_Name, m.Manager_Name  
FROM Team t  
JOIN Manager m ON t.Manager_ID = m.Manager_ID;
```

Query 1

Results		Explain	Describe	Saved SQL	History
		TEAM_NAME	MANAGER_NAME		
Team A		John Doe			
Team B		Jane Smith			
Team C		Mike Johnson			
Team D		Sarah Williams			
Team E		Robert Davis			

5 rows returned in 0.00 seconds [Download](#)

Result of Query 1

Retrieve the player name, team name, and country for each player

```
SELECT p.Player_Name, t.Team_Name, t.Team_Country  
FROM Player p  
JOIN Player_Team pt ON p.Player_ID = pt.Player_ID  
JOIN Team t ON pt.Team_ID = t.Team_ID;
```

2

3

4

Query 2

Results		Explain	Describe	Saved SQL	History
		PLAYER_NAME	TEAM_NAME	TEAM_COUNTRY	
Player 1		Team A			USA
Player 2		Team B			UK
Player 3		Team C			Australia
Player 4		Team D			Canada
Player 5		Team E			Germany

5 rows returned in 0.00 seconds [Download](#)

Result of Query 2

Get the content creator name, social media name, and email for each content creator

```
SELECT cc.ContentCreator_Name, sm.SocialMedia_Name, sm.SocialMedia_Email  
FROM ContentCreator cc
```

1  
2  
3

```
JOIN SocialMedia.sm ON cc.SOCIALMEDIA_ID = sm.SocialMedia_ID;
```

1

2  
3

### Query 3

Results	Explain	Describe	Saved SQL	History
CONTENTCREATOR_NAME		SOCIALMEDIA_NAME		SOCIALMEDIA_EMAIL
ContentCreator 1		SocialMediaUser221		social.user1@example.com
ContentCreator 2		SocialMediaUser442		social.user2@example.com
ContentCreator 3		SocialMediaUser423		social.user3@example.com
ContentCreator 4		SocialMediaUser4234		social.user4@example.com
ContentCreator 5		SocialMediaUser5523		social.user5@example.com

5 rows returned in 0.01 seconds    [Download](#)

### Result of Query 3

## 5.11 Creating View

Create a view to display the details of managers and their associated teams

```
CREATE VIEW ManagerTeamView AS
SELECT m.Manager_Name, t.Team_Name, t.Team_Country
FROM Manager m
JOIN Team t ON m.Manager_ID = t.Manager_ID;
```

4

ManagerTeamView

MANAGER_NAME	TEAM_NAME	TEAM_COUNTRY
John Doe	Team A	USA
Jane Smith	Team B	UK
Mike Johnson	Team C	Australia
Sarah Williams	Team D	Canada
Robert Davis	Team E	Germany

5 rows returned in 0.00 seconds    [Download](#)

Result of ManagerTeamView

Create a view to show the average salary of content creators

1

```
CREATE VIEW AverageSalaryView AS
SELECT AVG(ContentCreator_Salary) AS Average_Salary
FROM ContentCreator;
```

2

3

AvgSalaryView

Results    [Explain](#)    [Describe](#)    [Saved SQL](#)    [History](#)

AVERAGE\_SALARY

4000

1 rows returned in 0.00 seconds    [Download](#)

Result of AverageSalaryView

Create a view to list the players and their corresponding teams 1

```
CREATE VIEW PlayerTeamView AS
JOIN Team t ON pt.Team_ID = t.Team_ID;
SELECT p.Player_Name, t.Team_Name
FROM Player p
JOIN Player_Team pt ON p.Player_ID = pt.Player_ID
```

1  
2  
3  
2  
3  
4  
5

## PlayerTeamView

PlayerTeamView	
Results	Explain
Describe	Saved SQL
PLAYER_NAME	TEAM_NAME
Player 1	Team A
Player 2	Team B
Player 3	Team C
Player 4	Team D
Player 5	Team E

5 rows returned in 0.00 seconds    [Download](#)

## Result of PlayerTeamView

## 5.12 Synonyms

1  
2  
3  
4  
5  
6  
7  
8

```
-- Create synonym for the ORGANIZATION_TOURNAMENT table
CREATE SYNONYM org_tour FOR Organization_Tournament;

-- Create synonym for the CONTENTCREATOR_SOCIALMEDIA table CREATE SYNONYM cc_sm FOR
ContentCreator_SocialMedia;

-- Create synonym for the CONTENTCREATOR_PHONE table
CREATE SYNONYM cc_ph FOR ContentCreator_Phone;
```

## Synonyms

Results	Explain	Describe	Saved SQL	History
OWNER	SYNONYM_NAME	TABLE_OWNER	TABLE_NAME	DB_LINK
ESPORTFTW	CC_PH	ESPORTFTW	CONTENTCREATOR_PHONE	-
ESPORTFTW	CC_SM	ESPORTFTW	CONTENTCREATOR_SOCIALMEDIA	-
ESPORTFTW	ORG TOUR	ESPORTFTW	ORGANIZATION_TOURNAMENT	-

3 rows returned in 1.38 seconds    [Download](#)

## List of Synonyms

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# Relational Algebra

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1. Find the name of the manager whose manager id is 5.

$$\Pi_{\text{Manager Name}}(\sigma_{\text{Manager ID}=5}(\text{Manager}))$$

2. Find the Salary of 'Player 1'.

$$\Pi_{\text{Player Salary}}(\sigma_{\text{name}=\text{"Player 1"}}(\text{Player}))$$

3. Find Player id whose birthday is on 1992-05-10.

$$\Pi_{\text{Player ID}}(\sigma_{\text{Player DOB}=\text{"1992-05-10"}}(\text{Player}))$$

4. Find the Country, City, Street, and Zip code where Content Creator ID is equal to 4.

$$\begin{aligned} & \Pi_{\text{ContentCreator Country}, \text{ContentCreator City}, \text{ContentCreator Street}, \text{ContentCreator Zip Code}} \\ & (\sigma_{\text{ContentCreator ID}=4}(\text{ContentCreator Address})) \end{aligned}$$

---

5. Find the Team ID that won the Championship 2023.

$$\Pi_{\text{Team ID}} (\sigma_{\text{Team Winning} = \text{"Championship 2023"}}(\text{Team Winning}))$$

## Conclusion

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In conclusion, the project for the development and implementation of an Esports Management System has outlined a revolutionary platform that aims to transform the management and organization of esports teams, players, tournaments, and sponsors. The proposed system seeks to improve user experience, encourage community engagement, and streamline operations within the esports industry by leveraging advanced technology and comprehensive functionalities.

For the final term, we plan to enhance the existing project by developing a web application using Dotnet and Sveltekit frameworks. This transition to a web app will provide greater accessibility and flexibility to users, allowing them to access the Esports Management System from any device with an internet connection.