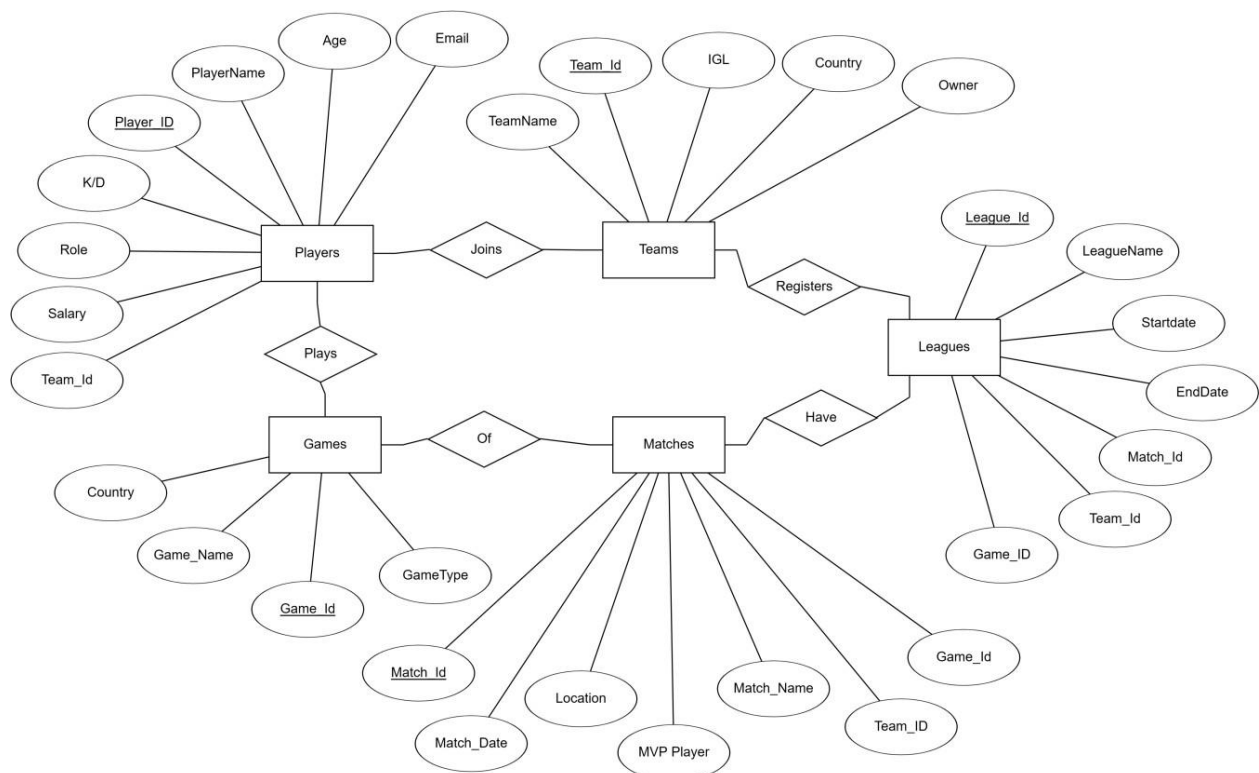


eSportify

1) Introduction :

eSportify is a management system which will provide a platform for team managers to track progress, communicate with team members and analyze performance

2) E-R Diagram :



3) Structure of Tables :

Player-

This table stores information about each player such as name, age, salary, email address.

```
MariaDB [Project]> desc Player;
```

Field	Type	Null	Key	Default	Extra
Player_id	int(11)	NO	PRI	NULL	
Player_Name	varchar(20)	NO		NULL	
Role	varchar(20)	YES		NULL	
Age	int(11)	YES		NULL	
KD	int(11)	YES		NULL	
Salary	int(11)	YES		NULL	
Email	varchar(20)	YES		NULL	
Team_Id	int(11)	YES	MUL	NULL	

8 rows in set (0.008 sec)

Team-

This table contains all the information about Teams such as their Team Name, who is the Team Leader, who is owner of the Team.

```
MariaDB [Project]> desc Team;
```

Field	Type	Null	Key	Default	Extra
Team_id	int(11)	NO	PRI	NULL	
Team_Name	varchar(20)	NO		NULL	
IGL	varchar(20)	YES		NULL	
Country	varchar(20)	YES		NULL	
Owner	varchar(20)	YES		NULL	

5 rows in set (0.012 sec)

Game -

This table stores information about Games, including the game name, game type.

```
MariaDB [Project]> desc Game;
```

Field	Type	Null	Key	Default	Extra
Game_id	int(11)	NO	PRI	NULL	
Game_Name	varchar(20)	YES		NULL	
Game_Type	varchar(20)	YES		NULL	
country	varchar(20)	YES		NULL	

4 rows in set (0.009 sec)

Matches -

This table stores information about matches, including the match location, player of the match, match date.

```
MariaDB [Project]> desc Matches;
```

Field	Type	Null	Key	Default	Extra
Match_id	int(11)	NO	PRI	NULL	
Match_Name	varchar(20)	YES		NULL	
Match_Date	date	YES		NULL	
Location	varchar(20)	YES		NULL	
MVP_Player	varchar(20)	YES		NULL	
Team_id	int(11)	YES	MUL	NULL	
Game_id	int(11)	YES	MUL	NULL	

7 rows in set (0.009 sec)

League -

This table stores information about league, including the league name, league id, date.

```
MariaDB [Project]> desc League;
```

Field	Type	Null	Key	Default	Extra
League_id	int(11)	NO	PRI	NULL	
League_Name	varchar(20)	YES		NULL	
Start_Date	date	YES		NULL	
End_Date	date	YES		NULL	
Team_id	int(11)	YES	MUL	NULL	
Match_id	int(11)	YES	MUL	NULL	
Game_id	int(11)	YES	MUL	NULL	

7 rows in set (0.008 sec)

4) Contents of Tables :

Player –

```
MariaDB [Project]> select * from Player;
```

Player_id	Player_Name	Role	Age	KD	Salary	Email	Team_Id
1011	Harmandeep Singh	Assaulter	22	6	100000	hs@gmail.com	1111
1012	Naman Mathur	IGL	21	7	90000	nm@gmail.com	1111
1013	Tanmay Singh	Supporter	23	8	200000	ts@gmail.com	1111
1014	Yash Soni	Supporter	22	5	95000	ys@gmail.com	1111
1015	Parv Singh	Assaulter	19	6	80000	ps@gmail.com	1111
1016	Ganesh Gangadhar	IGL	21	5	100000	skrossi@gmail.com	1122
1017	Bhavin Kotwani	Duelist	23	5	85000	hranger@gmail.com	1122
1018	Jordan he	Duelist	20	3	65000	jordan@gmail.com	1122
1019	Michael Wronski	Sentinel	19	4	90000	mic@gmail.com	1122
1020	Park Jon-Ki	Controller	21	2	90000	pjk@gmail.com	1122
1021	Lokesh Karakoti	Supporter	23	5	100000	pahadi@gmail.com	1133
1022	Ajay Banga	IGL	28	4	85000	jonty@gmail.com	1133
1023	Sankalp Gupta	Supporter	25	5	75000	duker@gmail.com	1133
1024	Jayesh Yadav	Assaulter	21	8	125000	jay@gmail.com	1133
1025	Naitik Khoshto	Assaulter	23	7	80000	monk@gmail.com	1133
1026	Jash Shah	IGL	25	5	100000	jash@gmail.com	1144
1027	Anirudh Vhavle	Supporter	25	6	85000	av@gmail.com	1144
1028	Rishi Dubey	Assaulter	26	3	65000	rd@gmail.com	1144
1029	Sameer Sinha	Supporter	21	4	75000	ss@gmail.com	1144
1030	Zeel Patel	Assaulter	22	5	70000	neut@gmail.com	1144
1031	Jonathan Amaral	Assaulter	23	10	250000	jon@gmail.com	1155
1032	Vivek Horo	IGL	24	5	90000	vh@gmail.com	1155
1033	Suraj Majumdar	Supporter	21	6	85000	neyo@gmail.com	1155
1034	Abhishek Choudhary	Supporter	22	4	85000	ac@gmail.com	1155
1035	Ashpreet Singh	Assaulter	23	6	100000	ashs@gmail.com	1155

```
25 rows in set (0.000 sec)
```

Team –

```
MariaDB [Project]> select * from Team;
```

Team_id	Team_Name	IGL	Country	Owner
1111	Soul	Naman Mathur	India	Mortal & Goldy
1122	Global E-Sports	Ganesh Gangadhar	Singapore	Rushindra Sinha
1133	Orangutan	Ajay Banga	India	Jai Shah
1144	Sentinels	Jash Shah	USA	Rob Moore
1155	God-Like	Vivek Horo	India	Kronten

```
5 rows in set (0.000 sec)
```


Games –

```
MariaDB [Project]> select * from Game;
```

Game_id	Game_Name	Game_Type	country
201	Valorant	FPS	China
202	BGMI	Battle Royale	India
203	Freefire	Battle Royale	Singapore
204	League Of Legends	Strategy	USA
205	Call of Duty	FPS	China
206	Fortnite	Battle Royale	Cary
207	Counter Strike	FPS	Singapore
208	Clash of Clans	Strategy	Finland
209	Apex Legends	Battle Royale	China
210	Rocket League	Arcade	USA

10 rows in set (0.000 sec)

Matches -

```
MariaDB [Project]> select * from Matches;
```

Match_id	Match_Name	Match_Date	Location	MVP_Player	Team_id	Game_id
2211	Tier-1	2022-01-08	Mumbai	Ganesh Gangadhar	1122	201
2212	Qualifier	2022-01-12	Kolkata	Ajay Banga	1133	203
2213	Tier-2	2022-01-18	Mumbai	Ganesh Gangadhar	1122	201
2214	Tier-3	2022-01-29	Hyderabad	Tanmay Singh	1111	202
2215	Tier-1	2022-01-21	Mumbai	Ajay Banga	1133	203
2216	Tier-3	2022-02-23	Hyderabad	Bhavin Kotwani	1122	201
2217	Tier-1	2022-02-03	Singapore	Lokesh Karakoti	1133	203
2218	Qualifier	2022-02-10	Chennai	Tanmay Singh	1111	202
2219	Eliminator	2022-02-16	Singapore	Jayesh Yadav	1133	203
2220	Tier-2	2022-02-19	Chennai	Jordan he	1122	201
2221	Eliminator2	2022-02-21	Chennai	Michael Wronski	1122	201
2222	Tier-3	2022-03-05	Mumbai	Jash Shah	1144	205
2223	Qualifier2	2022-03-11	Singapore	Naitik Khoshto	1133	203
2224	Tier-2	2022-03-16	Chennai	Tanmay Singh	1111	202
2225	Tier-1	2022-03-21	Vietnam	Naman Mathur	1111	202
2226	Tier-2	2022-03-26	Vietnam	Yash Soni	1111	202
2227	Eliminator	2022-04-11	Mumbai	Naitik Khoshto	1133	203
2228	Tier-3	2022-04-17	New York	Ganesh Gangadhar	1122	201
2229	Finals	2022-04-17	Singapore	Lokesh Karakoti	1133	203
2230	Finals	2022-04-21	Mumbai	Zeel Patel	1144	205
2231	Qualifier	2022-04-28	Mumbai	Sameer Sinha	1144	205
2232	Tier-1	2022-05-12	Mumbai	Jonathan Amaral	1155	202
2233	Tier-3	2022-05-14	Mumbai	Vivek Horo	1155	202
2234	Eliminator	2022-05-22	Chennai	Lokesh Karakoti	1133	203
2235	Finals	2022-06-12	Mumbai	Suraj Majumdar	1155	202

25 rows in set (0.000 sec)

League –

```
MariaDB [Project]> select * from League;
```

League_id	League_Name	Start_Date	End_Date	Team_id	Match_id	Game_id
10101	Snapdragon	2022-01-08	2022-01-18	1122	2211	201
10102	Red-Bull	2022-01-12	2022-01-22	1133	2212	203
10103	PSL	2022-01-18	2022-01-28	1122	2213	201
10104	City Open	2022-01-29	2022-02-20	1111	2214	202
10105	Asia League	2022-01-21	2022-02-21	1133	2215	203
10106	SD	2022-02-23	2022-03-23	1122	2216	201
10107	GameTV	2022-02-03	2022-02-26	1133	2217	203
10108	Snapdragon S2	2022-02-10	2022-02-26	1111	2218	202
10109	ESL	2022-02-16	2022-03-16	1133	2219	203
10110	PG	2022-02-19	2022-03-26	1122	2220	201
10111	Asia Series	2022-02-21	2022-03-21	1122	2221	201
10112	Asia Cup	2022-03-05	2022-03-25	1144	2222	205
10113	PES Showdown	2022-03-11	2022-03-27	1133	2223	203
10114	Gold League	2022-03-16	2022-04-16	1111	2224	202
10115	Summerslam	2022-03-21	2022-04-16	1111	2225	202
10116	Wrestlemania	2022-03-26	2022-04-26	1111	2226	202
10117	EMEA	2022-04-11	2022-05-26	1133	2227	203
10118	Challenger Cup	2022-04-17	2022-05-17	1122	2228	201
10119	Invitational	2022-04-28	2022-05-28	1133	2229	203
10120	Champions League	2022-05-12	2022-05-22	1144	2230	205
10121	Masters Series	2022-05-14	2022-06-14	1144	2231	205
10122	Smash Cup	2022-05-22	2022-06-22	1155	2232	202
10123	Weibo Cup	2022-06-12	2022-07-11	1155	2233	202
10124	ML Series	2022-06-13	2022-07-13	1133	2234	203
10125	PG Masters Series	2022-06-16	2022-07-26	1155	2235	202

```
25 rows in set (0.000 sec)
```

5) Sub Queries :

Question 1 -

What is the age,player name and salary of the players who belong to teamsplaying the game BGMI ?

Query -

```
select Age,Player_Name,Salary from Player where Team_id  
in(select Team_Idfrom League where Game_Id in(select Game_Id  
from Game where Game_Name='BGMI'));
```

Output -

```
MariaDB [project]> select Age,Player_Name,Salary from Player where Team_id in(select Team_Id from League where Game_Id in(select Game_Id from Game where Game_Name='BGMI'));
```

Age	Player_Name	Salary
22	Harmandeep Singh	100000
21	Naman Mathur	90000
23	Tanmay Singh	200000
22	Yash Soni	95000
19	Parv Singh	80000
23	Jonathan Amaral	250000
24	Vivek Horo	90000
21	Suraj Majumdar	85000
22	Abhishek Choudhary	85000
23	Ashpreet Singh	100000

```
10 rows in set (0.001 sec)
```


Question 2 -

What is the name of the game in which the Match Tier-3 is played?

Query -

```
select Game_Name from Game where Game_Id in(select
Game_Id from Matches where Match_Name='Tier-3');
```

Output -

```
MariaDB [project]> select Game_Name from Game where Game_Id in(select Game_Id from Matches where Match_Name='Tier-3');
+-----+
| Game_Name |
+-----+
| Valorant  |
| BGMI      |
| Call of Duty |
+-----+
3 rows in set (0.001 sec)
```

Question 3 -

Which players belong to teams that have played matches in Hyderabad?

Query -

```
select * from Player where Team_Id in(Select Team_Id from
Matches where Location='Hyderabad');
```

Output -

```
MariaDB [project]> select * from Player where Team_Id in(Select Team_Id from Matches where Location='Hyderabad');
+-----+-----+-----+-----+-----+-----+-----+-----+
| Player_id | Player_Name | Role | Age | KD | Salary | Email | Team_Id |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1011 | Harmandeep Singh | Assaulter | 22 | 6 | 100000 | hs@gmail.com | 1111 |
| 1012 | Naman Mathur | IGL | 21 | 7 | 90000 | nm@gmail.com | 1111 |
| 1013 | Tanmay Singh | Supporter | 23 | 8 | 200000 | ts@gmail.com | 1111 |
| 1014 | Yash Soni | Supporter | 22 | 5 | 95000 | ys@gmail.com | 1111 |
| 1015 | Parv Singh | Assaulter | 19 | 6 | 80000 | ps@gmail.com | 1111 |
| 1016 | Ganesh Gangadhar | IGL | 21 | 5 | 100000 | skrossi@gmail.com | 1122 |
| 1017 | Bhavin Kotwani | Duelist | 23 | 5 | 85000 | hranger@gmail.com | 1122 |
| 1018 | Jordan he | Duelist | 20 | 3 | 65000 | jordan@gmail.com | 1122 |
| 1019 | Michael Wronski | Sentinel | 19 | 4 | 90000 | mic@gmail.com | 1122 |
| 1020 | Park Jon-Ki | Controller | 21 | 2 | 90000 | pjkg@gmail.com | 1122 |
+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.001 sec)
```

6) Joins :

Question 1 -

What is the name of the league, its start and end dates, and the name of the match and the MVP player for all matches that have taken place?

Query -

Select

League.League_Name, League.Start_Date, League.End_Date, Matches.Match_Name, Matches.MVP_Player from League inner join Matches on League.Match_Id=Matches.Match_Id;

Output -

```
MariaDB [project]> select League.League_Name, League.Start_Date, League.End_Date, Matches.Match_Name, Matches.MVP_Player from League inner join Matches on League.Match_Id=Matches.Match_Id;
```

League_Name	Start_Date	End_Date	Match_Name	MVP_Player
Snapdragon	2022-01-08	2022-01-18	Tier-1	Ganesh Gangadhar
Red-Bull	2022-01-12	2022-01-22	Qualifier	Ajay Banga
PSL	2022-01-18	2022-01-28	Tier-2	Ganesh Gangadhar
City Open	2022-01-29	2022-02-20	Tier-3	Tanmay Singh
Asia League	2022-01-21	2022-02-21	Tier-1	Ajay Banga
SD	2022-02-23	2022-03-23	Tier-3	Bhavin Kotwani
GameTV	2022-02-03	2022-02-26	Tier-1	Lokesh Karakoti
Snapdragon S2	2022-02-10	2022-02-26	Qualifier	Tanmay Singh
ESL	2022-02-16	2022-03-16	Eliminator	Jayesh Yadav
PG	2022-02-19	2022-03-26	Tier-2	Jordan he
Asia Series	2022-02-21	2022-03-21	Eliminator2	Michael Wronski
Asia Cup	2022-03-05	2022-03-25	Tier-3	Jash Shah
PES Showdown	2022-03-11	2022-03-27	Qualifier2	Naitik Khoshto
Gold League	2022-03-16	2022-04-16	Tier-2	Tanmay Singh
Summerslam	2022-03-21	2022-04-16	Tier-1	Naman Mathur
Wrestlemania	2022-03-26	2022-04-26	Tier-2	Yash Soni
EMEA	2022-04-11	2022-05-26	Eliminator	Naitik Khoshto
Challenger Cup	2022-04-17	2022-05-17	Tier-3	Ganesh Gangadhar
Invitational	2022-04-28	2022-05-28	Finals	Lokesh Karakoti
Champions League	2022-05-12	2022-05-22	Finals	Zeel Patel
Masters Series	2022-05-14	2022-06-14	Qualifier	Sameer Sinha
Smash Cup	2022-05-22	2022-06-22	Tier-1	Jonathan Amaral
Weibo Cup	2022-06-12	2022-07-11	Tier-3	Vivek Horo
ML Series	2022-06-13	2022-07-13	Eliminator	Lokesh Karakoti
PG Masters Series	2022-06-16	2022-07-26	Finals	Suraj Majumdar

25 rows in set (0.021 sec)

Question 2-

What is the salary, player name, and the name of the team that the player belongs to for all players, including those who are not currently part of any team?

Query -

```
select Player.Salary,Player.Player_name,Team.Team_Name from  
Player leftjoin Team on Player.Team_Id=Team.Team_Id;
```

Output -

```
MariaDB [project]> select Player.Player_name,Player.Salary,Team.Team_Name from Player left join Team on Player.Team_Id=Team.Team_Id;  
+-----+-----+-----+  
| Player_name | Salary | Team_Name |  
+-----+-----+-----+  
| Harmandeep Singh | 100000 | Soul |  
| Naman Mathur | 90000 | Soul |  
| Tanmay Singh | 200000 | Soul |  
| Yash Soni | 95000 | Soul |  
| Parv Singh | 80000 | Soul |  
| Ganesh Gangadhar | 100000 | Global E-Sports |  
| Bhavin Kotwani | 85000 | Global E-Sports |  
| Jordan he | 65000 | Global E-Sports |  
| Michael Wronski | 90000 | Global E-Sports |  
| Park Jon-Ki | 90000 | Global E-Sports |  
| Lokesh Karakoti | 100000 | Orangutan |  
| Ajay Banga | 85000 | Orangutan |  
| Sankalp Gupta | 75000 | Orangutan |  
| Jayesh Yadav | 125000 | Orangutan |  
| Naitik Khoshto | 80000 | Orangutan |  
| Jash Shah | 100000 | Sentinels |  
| Anirudh Vhavle | 85000 | Sentinels |  
| Rishi Dubey | 65000 | Sentinels |  
| Sameer Sinha | 75000 | Sentinels |  
| Zeel Patel | 70000 | Sentinels |  
| Jonathan Amaral | 250000 | God-Like |  
| Vivek Horo | 90000 | God-Like |  
| Suraj Majumdar | 85000 | God-Like |  
| Abhishek Choudhary | 85000 | God-Like |  
| Ashpreet Singh | 100000 | God-Like |  
+-----+-----+-----+  
25 rows in set (0.001 sec)
```

Question 3 –

What is the name and type of the game, and the name of the match, for all matches played?

Query –

```
Select Game.Game_Name,Game.Game_Type,Matches.Match_Name
from      Game      Right      Join      Matches      on
Game.Game_Id=Matches.Game_Id;
```

Output -

```
MariaDB [project]> select Game.Game_Name,Game.Game_Type,Matches.Match_Name from Game Right Join Matches on Game.Game_Id=Matches.Game_Id;
+-----+-----+-----+
| Game_Name | Game_Type | Match_Name |
+-----+-----+-----+
| Valorant  | FPS       | Tier-1     |
| Freefire  | Battle Royale | Qualifier  |
| Valorant  | FPS       | Tier-2     |
| BGMI      | Battle Royale | Tier-3     |
| Freefire  | Battle Royale | Tier-1     |
| Valorant  | FPS       | Tier-3     |
| Freefire  | Battle Royale | Tier-1     |
| BGMI      | Battle Royale | Qualifier  |
| Freefire  | Battle Royale | Eliminator |
| Valorant  | FPS       | Tier-2     |
| Valorant  | FPS       | Eliminator2 |
| Call of Duty | FPS       | Tier-3     |
| Freefire  | Battle Royale | Qualifier2 |
| BGMI      | Battle Royale | Tier-2     |
| BGMI      | Battle Royale | Tier-1     |
| BGMI      | Battle Royale | Tier-2     |
| Freefire  | Battle Royale | Eliminator |
| Valorant  | FPS       | Tier-3     |
| Freefire  | Battle Royale | Finals     |
| Call of Duty | FPS       | Finals     |
| Call of Duty | FPS       | Qualifier  |
| BGMI      | Battle Royale | Tier-1     |
| BGMI      | Battle Royale | Tier-3     |
| Freefire  | Battle Royale | Eliminator |
| BGMI      | Battle Royale | Finals     |
+-----+-----+-----+
25 rows in set (0.001 sec)
```