



FIFA WORLD CUP
Qatar2022

Presentation

Database Project

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Importance of world cup database:

Why did we create the database?

- For easy retrieval of World Cup data when needed.
- Record all statistics, such as the tournament's top scorers and team performances.
- Monitor penalties, fouls, and warnings given to players.
- Track teams that advanced to the knockout stages.
- Record the champions, runner-ups, and third-place teams.
- Analyze data to identify trends in player and team performance across tournaments.



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Requirements:

- Each team has a unique name, FIFA_ranking, championships_Won.
- We keep track of the points, goal_out, goal_in and match_played in each group.
- Each team must be related to one Coach and must one Group.
- A team must have many Players, participate in many Matches, and win one Award.
- Each group has a unique Name.
- Each group must be related to multiple teams.
- Each coach has a unique Ssn, Name, and Nationality.
- Each coach is related to one team.
- Each player has a unique Ssn, F_name, L_name, Number, position, and B_date.
- Each player is related to one Team.
- A player can win multiple Awards and participate in many matches
- We keep track of the rate, status, punch, and number_of_goals in each match.



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Requirements (cont.):

- Each award has a unique ID, Name and award has won only one time.
 - Each award must be related to one Player and must one Team.
 - Each stadium has a unique Name, location, Capacity, and Opened_year.
 - We keep track of the Number_of_attendees in each match.
 - A stadium can host many matches.
 - Each match has a unique Number, Round, Time, Date and final_type.
 - Each match must be related to one Stadium and must multiple Teams.
 - Each referee has a unique Ssn, Name, and Nationality.
 - A referee can officiate multiple matches in different roles.
-
- Each entry records a match between two teams (Team_name1 and Team_name2) with their respective scores (Score_team1 and Score_team2).



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Requirements (cont.):

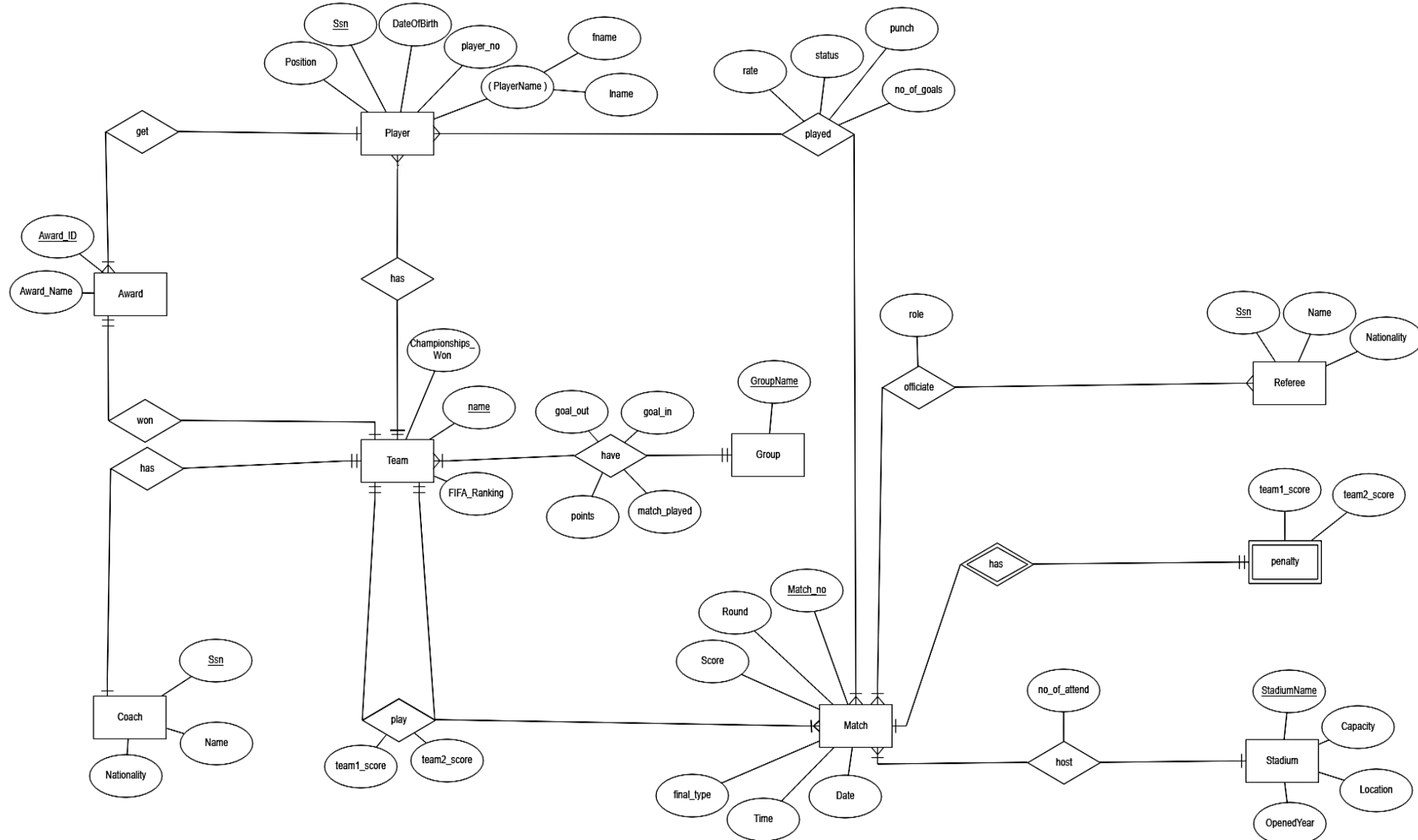
- Each penalty record includes the team1_score and team2_score.
- Each match may be has a penalty or not where penalty must be related to match if occurred.

After understanding the requirements of World Cup database create its ER model.



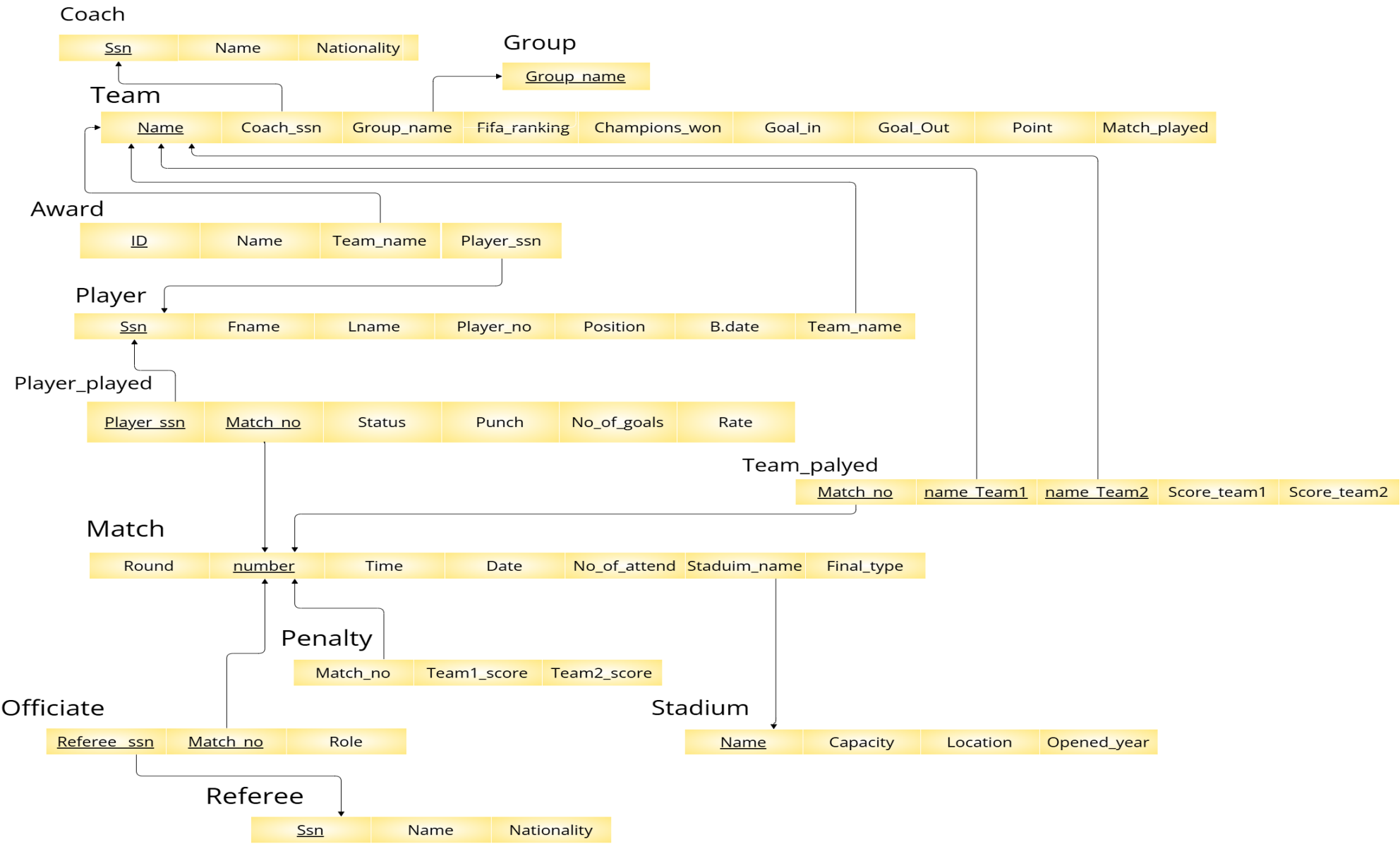
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ER-Diagram:



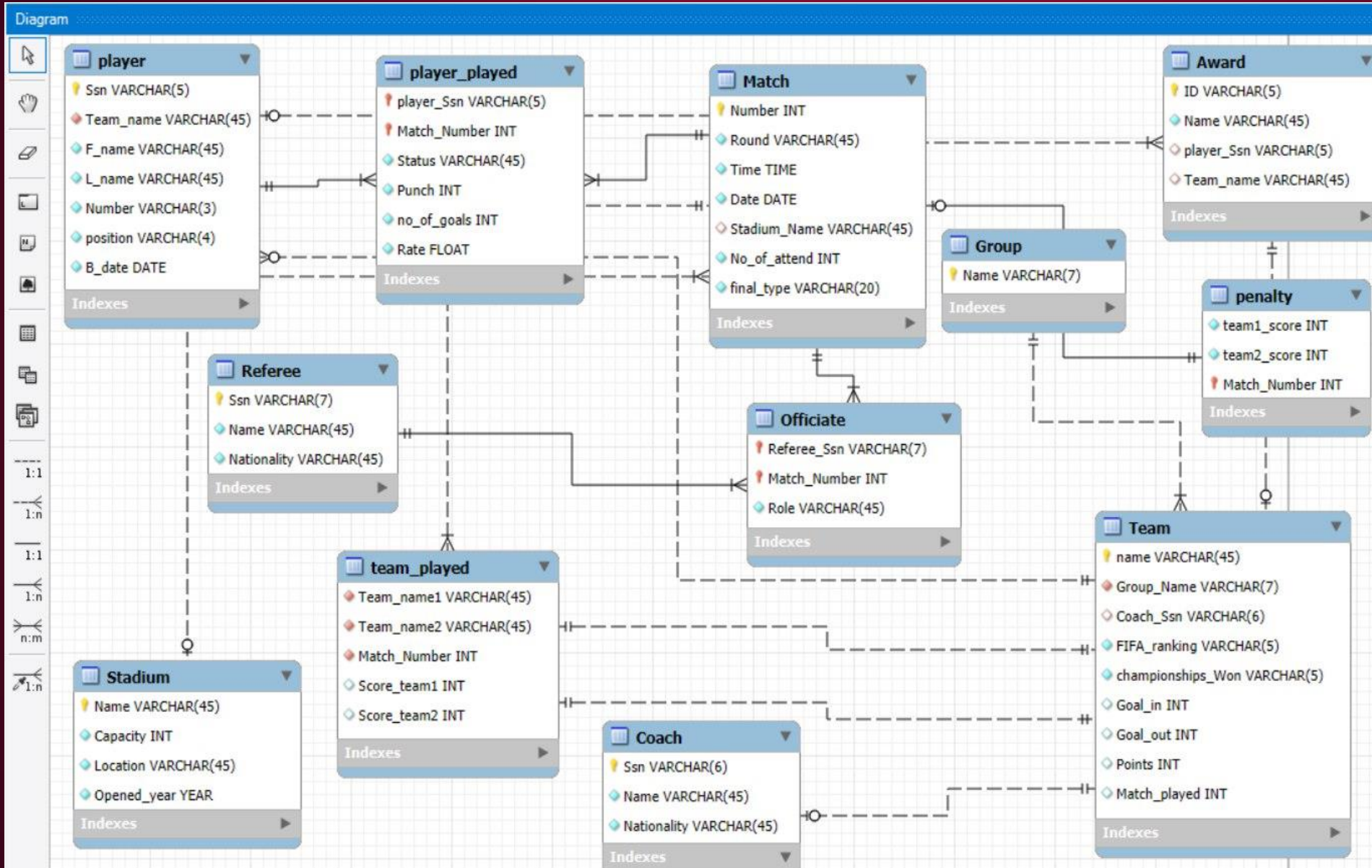
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Relational Model (Mapping):



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ER-Diagram on Work-Bench:



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Match:

	Number	Round	Time	Date	Stadium_Name	No_of_attend	final_type
▶	1	Group A	13:00:00	2022-11-20	Al Bayt Stadium	60000	regular
	2	Group A	16:00:00	2022-11-20	Lusail Iconic Stadium	88000	regular
	3	Group B	19:00:00	2022-11-21	Khalifa International Stadium	45000	regular
	4	Group B	22:00:00	2022-11-21	Al Thumama Stadium	40000	regular
	5	Group C	13:00:00	2022-11-22	Education City Stadium	45000	regular
	6	Group C	16:00:00	2022-11-22	Stadium 974	40000	regular
	7	Group D	19:00:00	2022-11-23	Al Janoub Stadium	44000	regular
	8	Group D	22:00:00	2022-11-23	Ahmed Bin Ali Stadium	44000	regular
	9	Group E	13:00:00	2022-11-24	Lusail Iconic Stadium	88000	regular
	10	Group E	16:00:00	2022-11-24	Al Bayt Stadium	60000	regular
	11	Group F	19:00:00	2022-11-24	Khalifa International Stadium	45000	regular
	12	Group F	22:00:00	2022-11-24	Al Thumama Stadium	40000	regular
	13	Group G	13:00:00	2022-11-25	Education City Stadium	45000	regular
	14	Group G	16:00:00	2022-11-25	Stadium 974	40000	regular
	15	Group H	19:00:00	2022-11-26	Al Janoub Stadium	44000	regular
	16	Group H	22:00:00	2022-11-26	Ahmed Bin Ali Stadium	44000	regular
	17	Group A	13:00:00	2022-11-27	Lusail Iconic Stadium	88000	regular
	18	Group A	16:00:00	2022-11-27	Al Bayt Stadium	60000	regular
	19	Group B	19:00:00	2022-11-28	Khalifa International Stadium	45000	regular
	20	Group B	22:00:00	2022-11-28	Al Thumama Stadium	40000	regular
	21	Group C	13:00:00	2022-11-29	Education City Stadium	45000	regular
	22	Group C	16:00:00	2022-11-29	Stadium 974	40000	regular
	23	Group D	19:00:00	2022-11-30	Al Janoub Stadium	44000	regular
	24	Group D	22:00:00	2022-11-30	Ahmed Bin Ali Stadium	44000	regular
	25	Group E	13:00:00	2022-12-01	Lusail Iconic Stadium	88000	regular
	26	Group E	16:00:00	2022-12-01	Al Bayt Stadium	60000	regular

Penalty:

	team1_score	team2_score	Match_Number
▶	1	3	54
	3	0	55
	4	2	57
	4	3	58
	4	2	64
•	NULL	NULL	NULL

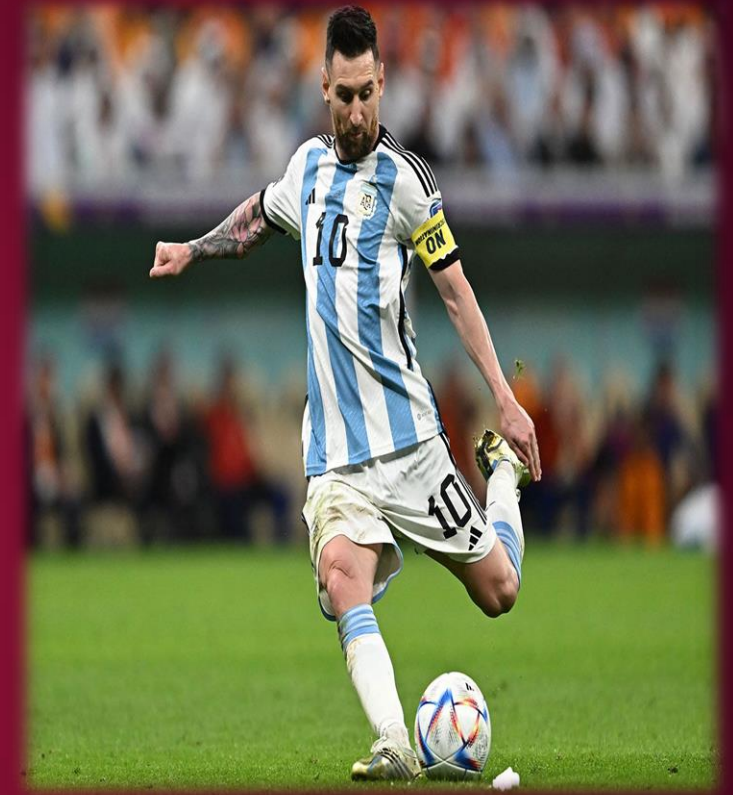


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Player:

	Ssn	Team_name	F_name	L_name	Number	position	B_date
▶	P001	Argentina	Lionel	Messi	10	FWD	1987-06-24
	P002	France	Kylian	Mbappé	7	FWD	1998-12-20
	P003	Brazil	Neymar	Junior	10	FWD	1992-02-05
	P004	Croatia	Luka	Modrić	10	MID	1985-09-09
	P005	Portugal	Cristiano	Ronaldo	7	FWD	1985-02-05
	P006	Argentina	Rodrigo	De Paul	7	MID	1994-05-24
	P007	Argentina	Julián	Álvarez	9	FWD	2000-01-31
	P008	France	Hugo	Lloris	1	GK	1986-12-26
	P009	France	Raphaël	Varane	4	DEF	1993-04-25
	P010	Brazil	Alisson	Becker	1	GK	1992-10-02
	P011	Brazil	Gabriel	Jesus	9	FWD	1997-04-03
	P012	Croatia	Marcelo	Brozović	11	MID	1992-11-16
	P013	Croatia	Josko	Gvardiol	20	DEF	2002-01-23
	P014	Portugal	Rúben	Dias	3	DEF	1997-05-14
	P015	Portugal	João	Felix	11	FWD	1999-11-10
	P016	England	Jude	Bellingham	22	MID	2003-06-29
	P017	England	Jordan	Pickford	1	GK	1994-03-07
	P018	Spain	Ferran	Torres	11	FWD	2000-02-29
	P019	Spain	Sergio	Busquets	5	MID	1988-07-16
	P020	Germany	Thomas	Müller	13	FWD	1989-09-13
	P021	Germany	Manuel	Neuer	1	GK	1986-03-27
	P022	Netherlands	Memphis	Depay	10	FWD	1994-02-13
	P023	Netherlands	Frenkie	De Jong	21	MID	1997-05-12
	P024	Belgium	Romelu	Lukaku	9	FWD	1993-05-13
	P025	Belgium	Thibaut	Courtois	1	GK	1992-05-11
	P026	Uruguay	Edinson	Cavani	21	FWD	1987-02-14

player 1 x



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Team Played:

	Team_name1	Team_name2	Match_Number	Score_team1	Score_team2
▶	Qatar	Ecuador	1	0	2
	Senegal	Netherlands	2	1	2
	England	Iran	3	6	2
	USA	Wales	4	1	1
	Argentina	Saudi Arabia	5	1	2
	Denmark	Tunisia	6	0	0
	Mexico	Poland	7	0	0
	France	Australia	8	4	1
	Morocco	Croatia	9	0	0
	Belgium	Canada	10	1	0
	Spain	Costa Rica	11	7	0
	Germany	Japan	12	1	2
	Costa Rica	Japan	13	0	1
	Belgium	Morocco	14	0	2
	Croatia	Canada	15	4	1
	Brazil	Serbia	16	2	0
	Switzerland	Cameroon	17	1	0
	Uruguay	South Korea	18	0	0
	Portugal	Ghana	19	3	2
	Brazil	Switzerland	20	1	0
	Cameroon	Serbia	21	3	3
	South Korea	Ghana	22	2	3
	Portugal	Uruguay	23	2	0
	Netherlands	Ecuador	24	1	1
	England	USA	25	0	0
	Iran	Wales	26	0	2

eam_played 1 x



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Coach:

	Ssn	Name	Nationality
►	C1	Félix Sánchez	Qatar
	C10	Hervé Renard	Saudi Arabia
	C11	Gerardo Martino	Mexico
	C12	Czesław Michniewicz	Poland
	C13	Didier Deschamps	France
	C14	Graham Arnold	Australia
	C15	Kasper Hjulmand	Denmark
	C16	Jalel Kadri	Tunisia
	C17	Luis Enrique	Spain
	C18	Hansi Flick	Germany
	C19	Hajime Moriyasu	Japan
	C2	Gustavo Alfaro	Ecuador
	C20	Luis Fernando Suárez	Costa Rica
	C21	Roberto Martínez	Belgium
	C22	John Herdman	Canada
	C23	Walid Regragui	Morocco
	C24	Zlatko Dalić	Croatia
	C25	Tite	Brazil
	C26	Dragan Stojković	Serbia
	C27	Murat Yakin	Switzerland
	C28	Rigobert Song	Cameroon
	C29	Fernando Santos	Portugal
	C3	Louis van Gaal	Netherlands
	C30	Otto Addo	Ghana
	C31	Diego Alonso	Uruguay
	C32	Paulo Bento	South Korea



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Stadium:

	Name	Capacity	Location	Opened_year
▶	Ahmad Bin Ali Stadium	40000	Al Rayyan	2020
	Al Bayt Stadium	60000	Al Khor	2021
	Al Janoub Stadium	40000	Al Wakrah	2020
	Al Thumama Stadium	40000	Doha	2021
	Education City Stadium	45000	Al Rayyan	2020
	Khalifa International Stadium	40000	Doha	1976
	Lusail Iconic Stadium	80000	Lusail	2021
	Stadium 974	40000	Doha	2021
•	NULL	NULL	NULL	NULL



Al Janoub



Al Bayt



Ahmad Bin Ali



Education City



Al Thumama



Stadium 974



Khalifa International



Lusail Iconic



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Group:

	Name
▶	Group A
	Group B
	Group C
	Group D
	Group E
	Group F
	Group G
	Group H
•	NULL





Group A

 Qatar
 Ecuador
 Senegal
 Netherlands

Group B

 England
 IR Iran
 USA
 Wales

Group C

 Argentina
 Saudi Arabia
 Mexico
 Poland



Group D

 France
 Denmark
 Tunisia
 Australia





Group E

 Spain
 Germany
 Japan
 Costa Rica





Group F

 Belgium
 Canada
 Morocco
 Croatia

Group G

 Brazil
 Serbia
 Switzerland
 Cameroon

Group H

 Portugal
 Ghana
 Uruguay
 Korea Republic



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Referee:

	Ssn	Name	Nationality
▶	20001	Daniele Orsato	Italy
	20002	Antonio Mateu Lahoz	Spain
	20003	Clement Turpin	France
	20004	Michael Oliver	England
	20005	Szymon Marciniak	Poland
	20006	Jesus Valenzuela	Venezuela
	20007	Wilton Sampaio	Brazil
	20008	Cesar Ramos	Mexico
	20009	Raphael Claus	Brazil
	20010	Danny Makkelie	Netherlands
	20011	Ismail Elfath	USA
	20012	Facundo Tello	Argentina
	20013	Fernando Rapallini	Argentina
	20014	Christopher Beath	Australia
	20015	Abdulrahman Al-Jassim	Qatar
	20016	Victor Gomes	South Africa
	20017	Mustapha Ghorbal	Algeria
	20018	Ivan Barton	El Salvador
	20019	Kevin Ortega	Peru
	20020	Bakary Gassama	Gambia
	20021	Mohammed Abdulla ...	UAE
	20022	Salima Mukansanga	Rwanda
	20023	Stephanie Frappart	France
	20024	Yoshimi Yamashita	Japan
	20025	Kathryn Nesbitt	USA
	20026	Mahmoud Al Banna	Egypt

referee 1 x



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Player_Played:

	player_Ssn	Match_Number	Status	Punch	no_of_goals	Rate
	P002	60	Starter	1	1	8.2
	P008	60	Starter	0	0	8.1
	P016	60	Starter	0	0	7.9
	P075	60	Starter	0	1	7.8
	P079	60	Starter	1	0	7.5
	P001	61	Starter	2	1	9.5
	P004	61	Starter	0	0	8.0
	P046	61	Starter	0	1	8.2
	P049	61	Starter	3	0	7.7
	P101	61	Starter	0	0	8.5
	P002	62	Starter	1	1	8.5
	P008	62	Starter	0	0	8.1
	P034	62	Starter	0	0	7.8
	P062	62	Starter	0	0	7.6
	P075	62	Starter	0	0	7.9
	P004	63	Starter	0	0	7.6
	P012	63	Starter	0	0	7.5
	P034	63	Starter	0	1	8.0
	P062	63	Starter	1	0	7.7
	P001	64	Starter	0	2	9.5
	P002	64	Starter	0	3	9.6
	P007	64	Starter	0	0	8.2
	P008	64	Starter	0	0	8.1
	P074	64	Starter	0	1	8.4
	P075	64	Starter	0	1	7.8
	P101	64	Starter	0	0	8.5

player_played 2 ×

Note in punch:

0→ No card

1→ Yellow card

2→ Two yellow cards (leading to a red card)

3→ Direct red card



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Officiate:

	Referee_Ssn	Match_Number	Role
▶	20001	1	Main Referee
	20002	1	Assistant Referee 1
	20003	1	Assistant Referee 2
	20004	1	Fourth Official
	20005	1	VAR
	20006	2	Main Referee
	20007	2	Assistant Referee 1
	20008	2	Assistant Referee 2
	20009	2	Fourth Official
	20010	2	VAR
	20011	3	Main Referee
	20012	3	Assistant Referee 1
	20013	3	Assistant Referee 2
	20014	3	Fourth Official
	20015	3	VAR
	20016	4	Main Referee
	20017	4	Assistant Referee 1
	20018	4	Assistant Referee 2
	20019	4	Fourth Official
	20020	4	VAR
	20021	5	Main Referee
	20022	5	Assistant Referee 1
	20023	5	Assistant Referee 2
	20024	5	Fourth Official
	20025	5	VAR
	20026	6	Main Referee

officiate 1 x



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Award:

	ID	Name	player_Ssn	Team_name
▶	A001	Golden Ball	P001	Argentina
	A002	Golden Boot	P002	France
	A003	Golden Glove	P101	Argentina
	A004	Best Young Player	P016	England
	A005	FIFA Fair Play Trophy	NULL	England
	A006	FIFA World Cup Trophy	NULL	Argentina
★	NULL	NULL	NULL	NULL



Golden Ball

Best Player



Golden Boot

Top Goal Scorer



Golden Glove

Best Goalkeeper



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Team:

	name	Group_Name	Coach_Ssn	FIFA_ranking	championships_Won	Goal_in	Goal_out	Points	Match_played
▶	Argentina	Group C	C9	A	2	5	2	6	3
	Australia	Group D	C14	D	0	3	4	6	3
	Belgium	Group F	C21	A	0	1	2	4	3
	Brazil	Group G	C25	A	5	3	1	6	3
	Cameroon	Group G	C28	C	0	4	4	4	3
	Canada	Group F	C22	D	0	2	7	0	3
	Costa Rica	Group E	C20	D	0	3	11	3	3
	Croatia	Group F	C24	B	2	4	1	5	3
	Denmark	Group D	C15	B	0	1	3	1	3
	Ecuador	Group A	C9	D	0	4	3	4	3
	England	Group B	C5	A	0	9	2	7	3
	France	Group D	C13	A	2	6	3	6	3
	Germany	Group E	C18	B	4	6	5	4	3
	Ghana	Group H	C30	D	0	5	7	3	3
	Iran	Group B	C6	C	0	4	7	3	3
	Japan	Group E	C19	C	0	4	3	6	3
	Mexico	Group C	C11	B	0	2	3	4	3
	Morocco	Group F	C23	C	0	4	1	7	3
	Netherlands	Group A	C3	B	0	5	1	7	3
	Poland	Group C	C12	C	0	2	2	4	3
	Portugal	Group H	C29	A	1	6	4	6	3
	Qatar	Group A	C31	A	0	1	7	0	3
	Saudi Arabia	Group C	C10	D	0	3	5	3	3
	Senegal	Group A	C4	C	1	5	4	6	3
	Serbia	Group G	C26	D	0	5	8	1	3
	South Korea	Group H	C32	C	0	4	4	4	3

team 1 ×



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QUERIES

1. Some Query from one table:

- Retrieve all details of matches that took place at the 'Lusail Iconic Stadium'

```
1  /*Retrieve all details of matches that took place at the 'Lusail Iconic Stadium'*/
2
3  • SELECT *
4  FROM `match`
5  WHERE Stadium_Name = 'Lusail Iconic Stadium';
```

Result Grid							
		Filter Rows:			Edit:	Export/Import:	Wrap Cell Content:
	Number	Round	Time	Date	Stadium_Name	No_of_attend	final_type
▶	2	Group A	16:00:00	2022-11-20	Lusail Iconic Stadium	88000	regular
	9	Group E	13:00:00	2022-11-24	Lusail Iconic Stadium	88000	regular
	17	Group A	13:00:00	2022-11-27	Lusail Iconic Stadium	88000	regular
	25	Group E	13:00:00	2022-12-01	Lusail Iconic Stadium	88000	regular
	34	Group A	16:00:00	2022-11-21	Lusail Iconic Stadium	88000	regular
	41	Group E	13:00:00	2022-11-25	Lusail Iconic Stadium	88000	regular
	50	Round of 16	22:00:00	2022-12-03	Lusail Iconic Stadium	88000	regular
	57	Quarter-finals	18:00:00	2022-12-09	Lusail Iconic Stadium	88000	penalty
	61	Semi-finals	22:00:00	2022-12-13	Lusail Iconic Stadium	88000	regular
	64	Final	18:00:00	2022-12-18	Lusail Iconic Stadium	88000	penalty
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL



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QUERIES

- Find all matches where the "Al" is part of the stadium name

```
1
2  -- Find all matches where the "Al" is part of the stadium name.
3  • SELECT distinct Stadium_Name
4    FROM `match`
5    WHERE Stadium_Name LIKE '%Al%';
6
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

Stadium_Name
Ahmed Bin Ali Stadium
Al Bayt Stadium
Al Janoub Stadium
Al Thumama Stadium
Khalifa International Stadium



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QUERIES

- Retrieve all players from Argentina team

```
1  /*Retrieve all players from Argentina team*/
2  •  SELECT F_name, L_name, number ,position
3     FROM Player
4     WHERE Team_name = 'Argentina';
5
```

Result Grid					Filter Rows:		Export:	Wrap Cell Content:
	F_name	L_name	number	position				
▶	Lionel	Messi	10	FWD				
	Rodrigo	De Paul	7	MID				
	Julián	Álvarez	9	FWD				
	Lautaro	Martínez	22	FWD				
	Ángel	Di María	11	FWD				
	Emiliano	Martínez	23	GK				





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QUERIES

- Teams with more than 3 points and fewer than 3 goals out**

```
1  -- Teams with more than 3 points and fewer than 3 goals out
2  • SELECT name as team_name, Points, Goal_out
3      FROM Team
4      WHERE Points > 3 AND Goal_out < 3;
5
6
```

Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	team_name	Points	Goal_out
▶	Argentina	6	2
	Belgium	4	2
	Brazil	6	1
	Croatia	5	1
	England	7	2
	Morocco	7	1
	Netherlands	7	1
	Poland	4	2
	Tunisia	4	1
	Uruguay	4	2
	USA	5	1



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QUERIES

- Retrieve all details the team_played who The result of all matchs ended 1 - 1

```
1  -- Retrieve all details the team_played who The result of all matchs ended 1 - 1
2 • SELECT *
3  from team_played
4  where Score_team1=1 and Score_team2=1
5
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Team_name1	Team_name2	Match_Number	Score_team1	Score_team2
USA	Wales	4	1	1
Netherlands	Ecuador	24	1	1
Spain	Germany	31	1	1
Japan	Croatia	54	1	1
Croatia	Brazil	57	1	1



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QUERIES

- Retrieve the winner team of the world cup

```
1  -- Retrieve the winner team of the world cup
2 • select team_name , name as award_name
3  from award
4  where name="FIFA World Cup Trophy";
5
6
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
team_name	award_name			
Argentina	FIFA World Cup Trophy			



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QUERIES

2. Some Query from Many Tables:

- Retrieve the rate of all player in final match

```
1  -- Retrieve the rate of all player in final match
2 • select distinct x.F_name, x.L_name, p.Rate
3  from player_played p, player x
4  where p.Match_Number='64' and x.Ssn=p.player_Ssn
```

<			
Result Grid			
Filter Rows: <input type="text"/>			
Export: <input type="button" value=""/>			
Wrap Cell Content: <input type="button" value=""/>			
	F_name	L_name	Rate
▶	Lionel	Messi	9.5
	Kylian	Mbappé	9.6
	Julián	Álvarez	8.2
	Hugo	Lloris	8.1
	Ángel	Di María	8.4
	Olivier	Giroud	7.8
	Emiliano	Martínez	8.5



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QUERIES

- **Get all matches with the names of the stadium (Stadium 974) and the teams that played**

```
1  -- Get all matches with the names of the stadium (Stadium 974) and the teams that played
2 • select m.Number, m.stadium_name as stadium_name, t.Team_name1, t.Team_name2
3  from `match` m ,team_played t
4  where t.Match_Number=m.Number and stadium_name="Stadium 974"
5
6
```

< Result Grid   Filter Rows: Export:  Wrap Cell Content: 

	Number	stadium_name	Team_name1	Team_name2
▶	6	Stadium 974	Denmark	Tunisia
	14	Stadium 974	Belgium	Morocco
	22	Stadium 974	South Korea	Ghana
	30	Stadium 974	Tunisia	Australia
	38	Stadium 974	South Korea	Portugal
	46	Stadium 974	Serbia	South Korea
	54	Stadium 974	Japan	Croatia



FIFA WORLD CUP
Qatar 2022

QUERIES

Retrieve match_number , referee_name , Role , name team1 and name team2 where match ended with penalty

```
1  -- Retrieve match_number , referee_name , Role , name team1
2  -- and name team2 where match ended with penalty
3 • select m.Number as match_number , r.Name as referee_name , o.Role ,t.Team_name1 ,t.Team_name2
4  from referee r,officiate o, `match` m , team_played t
5  where r.ssn = o.Referee_Ssn and o.Match_Number=m.Number
6  and t.Match_Number=m.Number and m.final_type="penalty"
```

match_number	referee_name	Role	Team_name1	Team_name2
54	Mahmoud Al Banna	Main Referee	Japan	Croatia
54	Adham Makhadmeh	Assistant Referee 1	Japan	Croatia
54	Ali Al-Tarifi	Assistant Referee 2	Japan	Croatia
54	Maguette Ndiaye	Fourth Official	Japan	Croatia
54	Matthew Conger	VAR	Japan	Croatia
55	Daniele Orsato	Main Referee	Morocco	Spain
55	Antonio Mateu Lahoz	Assistant Referee 1	Morocco	Spain
55	Clement Turpin	Assistant Referee 2	Morocco	Spain
55	Michael Oliver	Fourth Official	Morocco	Spain

Result 2 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- Retrieve name of coach that train Spain and his match played

```
1  -- retrieve name of coach that train Spain and his match played
2 • select c.Name ,p.Match_Number , p.Team_name1, p. Team_name2
3  from coach c, team t , team_played p
4  where c.Ssn= t.Coach_Ssn
5        and (t.name=Team_name1 or t.name=Team_name2 )
6        and c.name='Luis Enrique'
```

<				
Result Grid Filter Rows: Export: Wrap Cell Content:				
	Name	Match_Number	Team_name1	Team_name2
▶	Luis Enrique	11	Spain	Costa Rica
	Luis Enrique	31	Spain	Germany
	Luis Enrique	40	Japan	Spain
	Luis Enrique	44	Spain	Costa Rica
	Luis Enrique	55	Morocco	Spain

Result 1 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- Retrieve the player recieved direct red card on specific match n round and stadium name

```
1  -- Retrieve the player recieved direct red card on specific match n round and stadium name
2  •  select p.F_name,p.L_name, p.Team_name,pp.Match_Number ,m.round ,m.Stadium_Name
3  from player_played pp , player p , `match`m
4  where pp.player_Ssn=p.ssn and pp.Match_Number=m.Number and Punch=3; -- 3->direct res card
```

	F_name	L_name	Team_name	Match_Number	round	Stadium_Name
▶	Raphaël	Varane	France	29	Group G	Education City Stadium
	Alisson	Becker	Brazil	20	Group B	Al Thumama Stadium
	Manuel	Neuer	Germany	43	Group F	Khalifa International Stadium
	Romelu	Lukaku	Belgium	14	Group G	Stadium 974
	Guillermo	Ochoa	Mexico	7	Group D	Al Janoub Stadium
	Achraf	Hakimi	Morocco	14	Group G	Stadium 974
	Piotr	Zieliński	Poland	7	Group D	Al Janoub Stadium
	Nedke	da	Brasil	57	Quarter Final	Education City Stadium

Result 7 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- Retrieve the first name, last name, and award name for all players who have received an award

```
1  -- Retrieve the first name, last name, and award name for all players who have received an award
2 • SELECT
3      player.F_name AS FirstName,
4      player.L_name AS LastName,
5      award.Name AS AwardName
6  FROM player join award ON player.Ssn = award.player_Ssn;
7
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	FirstName	LastName	AwardName
▶	Lionel	Messi	Golden Ball
	Kylian	Mbappé	Golden Boot
	Emiliano	Martínez	Golden Glove
	Jude	Bellingham	Best Young Player

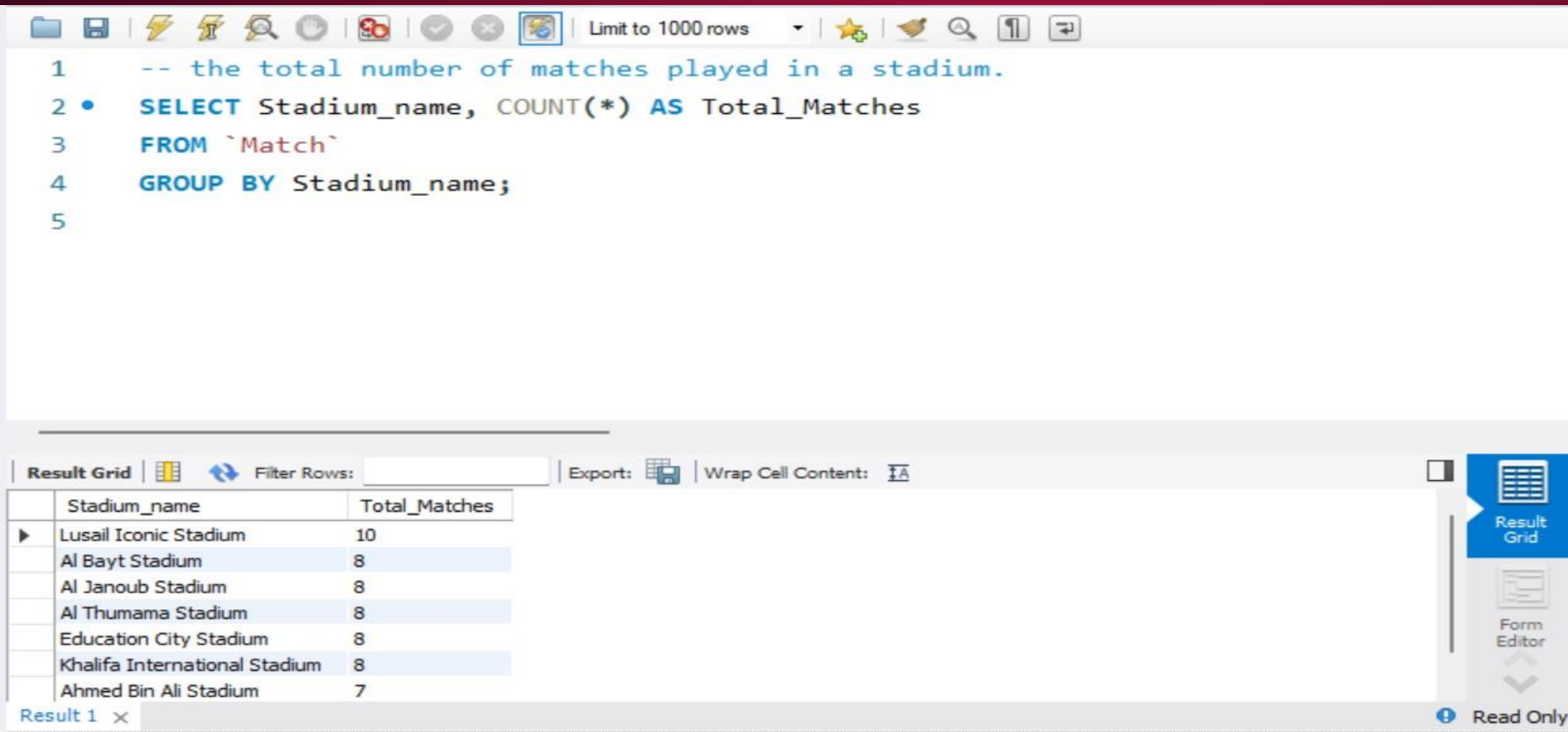


FIFA WORLD CUP
Qatar2022

QUERIES

3. Some Query Using Aggregate Functions and having or grouping or order by :

- **Retrieve the total number of matches played in a stadium.**



The screenshot shows a database query tool interface. The top toolbar includes icons for file operations, search, and execution, along with a 'Limit to 1000 rows' dropdown. The SQL editor contains the following query:

```
1  -- the total number of matches played in a stadium.
2  • SELECT Stadium_name, COUNT(*) AS Total_Matches
3     FROM `Match`
4     GROUP BY Stadium_name;
5
```

Below the editor, the 'Result Grid' tab is active, displaying the results of the query. The table has two columns: 'Stadium_name' and 'Total_Matches'.

Stadium_name	Total_Matches
Lusail Iconic Stadium	10
Al Bayt Stadium	8
Al Janoub Stadium	8
Al Thumama Stadium	8
Education City Stadium	8
Khalifa International Stadium	8
Ahmed Bin Ali Stadium	7

The interface also includes an 'Export' button, a 'Wrap Cell Content' checkbox, and a 'Read Only' status indicator at the bottom right.



FIFA WORLD CUP
Qatar2022

QUERIES

- **Retrieve the total goals for each player
Descending Order.**

```
1  -- Retrieve the total goals for each player
2 • select p.f_name,p.L_name,sum(pp.no_of_goals) as total_goal
3  from player p , player_played pp
4  where pp.player_Ssn=p.ssn
5  group by p.F_name,p.L_name
6  order by sum(pp.no_of_goals) desc;
7
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	f_name	L_name	total_goal
▶	Kylian	Mbappé	8
	Lionel	Messi	7
	Neymar	Junior	4
	Achraf	Hakimi	4
	Cristiano	Ronaldo	4
	Olivier	Giroud	2
	Bruno	Fernandes	2
	Aleksandar	Mitrović	2
	Lautaro	Martínez	2

Result 8 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- list the number of matches of players with team name
Descending Order

```
2  -- list the number of matches of players with team name
3 • select p.F_name,p.L_name,t.name as team_name ,count(*) as no_of_games
4  from player p,player_played pp,team t
5  where pp.player_Ssn=p.Ssn and p.Team_name=t.name
6  group by p.F_name,p.L_name,t.name
7  order by 4 desc
```

< Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	F_name	L_name	team_name	no_of_games
▶	Achraf	Hakimi	Morocco	7
	Lionel	Messi	Argentina	6
	Hugo	Lloris	France	6
	Luka	Modrić	Croatia	6
	Emiliano	Martínez	Argentina	6
	Kylian	Mbappé	France	5
	Hakim	Ziyech	Morocco	5
	Cristiano	Ronaldo	Portugal	5
	Mateo	Kovačić	Croatia	4

Result 4 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- list the total number of matches greater than 4 of each team and their Fifa Rank using having

```
1  -- list the total number of matches greater than 4 of each team and thier Fifa Rank using having
2  • SELECT Team.Name AS TeamName, COUNT(tp.Match_Number) AS MatchesPlayed, Team.FIFA_ranking
3     FROM Team
4     INNER JOIN team_played tp
5     ON Team.Name = tp.Team_Name1 or Team.Name = tp.Team_Name2
6     GROUP BY Team.name
7     HAVING COUNT(tp.Match_Number) > 4
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	TeamName	MatchesPlayed	FIFA_ranking
▶	Argentina	6	A
	Belgium	5	A
	Brazil	6	A
	Costa Rica	6	D
	Croatia	9	B
	France	6	A
	Japan	5	C
	Morocco	8	C
	Portugal	6	A
	South Korea	6	C

Result 7 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- **Retrive the top score player in all matches**

```
1  -- Retrive the top score player in all matches
2 • SELECT x.F_name,x.L_name,SUM(no_of_goals) as total_goal
3 FROM Player_played p , player x
4 where x.ssn=p.player_Ssn
5 GROUP BY x.ssn
6 order by SUM(no_of_goals) desc
7 limit 1
8
```

<

Result Grid		Filter Rows:		Export:		Wrap Cell Content:		Fetch rows:	
	F_name	L_name	total_goal						
▶	Kylian	Mbappé	8						



FIFA WORLD CUP
Qatar 2022

QUERIES

3. Some Nested Query:

- Calculate the total goals scored by each player who scored more than the average goals of all players using having and nested

```
1  -- Calculate the total goals scored by each player
2  -- who scored more than the average goals of all players
3  -- using having and nested
4  • SELECT p.F_name, p.L_name ,SUM(pp.no_of_goals) AS Total_Goals
5  FROM player p
6  INNER JOIN player_played pp
7  ON p.Ssn = pp.player_Ssn
8  GROUP BY p.F_name, p.L_name
9  HAVING Total_Goals > ( select AVG(no_of_goals)
10                        from player_played )
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	F_name	L_name	Total_Goals
▶	Lionel	Messi	7
	Kylian	Mbappé	8
	Neymar	Junior	4
	Luka	Modrić	1
	Cristiano	Ronaldo	4
	Gabriel	Jesus	2

Result 1 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- Find the top scorer in a specific match using a nested query

```
1  -- Find the top scorer in a specific match using a nested query
2 • select p.F_name, p.L_name, pp.no_of_goals ,pp.Match_Number
3  from player_played pp
4  join player p on pp.player_Ssn = p.Ssn
5  where pp.no_of_goals = (select MAX(no_of_goals)
6                          from player_played
7                          )
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

F_name	L_name	no_of_goals	Match_Number
Kylian	Mbappé	3	64



FIFA WORLD CUP
Qatar 2022

QUERIES

4. Some Random Query:

- retrieves player names, team names, the number of total goals, and total number of matches, whether the players participated in any matches or not.

```
1  -- retrieves player names, team names, the number of total goals, and total number of matches,
2  -- whether the players participated in any matches or not.
3  • SELECT p.F_name AS Player_First_Name,
4         p.L_name AS Player_Last_Name,
5         t.name AS Team_Name,
6         sum(pp.no_of_goals) AS Total_Goals,
7         count(pp.Match_Number) AS number_of_matches
8  FROM (player p LEFT JOIN player_played pp ON p.Ssn = pp.player_Ssn)
9  JOIN team t ON p.Team_name = t.name
10 GROUP BY p.F_name, p.L_name, t.name;
```

Result Grid					
Filter Rows:		Export:		Wrap Cell Content: IA	
	Player_First_Name	Player_Last_Name	Team_Name	Total_Goals	number_of_matches
▶	Aaron	Mooy	Australia	0	2
	Achraf	Hakimi	Morocco	4	7
	Akram	Afif	Qatar	NULL	0
	Aleksandar	Mitrović	Serbia	2	3
	Ali	Maâloul	Tunisia	0	2
	Alireza	Jahanbakhsh	Iran	1	2
	Alisson	Becker	Brazil	0	2
	Almoez	Ali	Qatar	NULL	0
	Alphonso	Davies	Canada	0	2

Result 8 x



FIFA WORLD CUP
Qatar 2022

QUERIES

- Retrieve match details from Group A, where the referee's name starts with "M", ordered by the match number

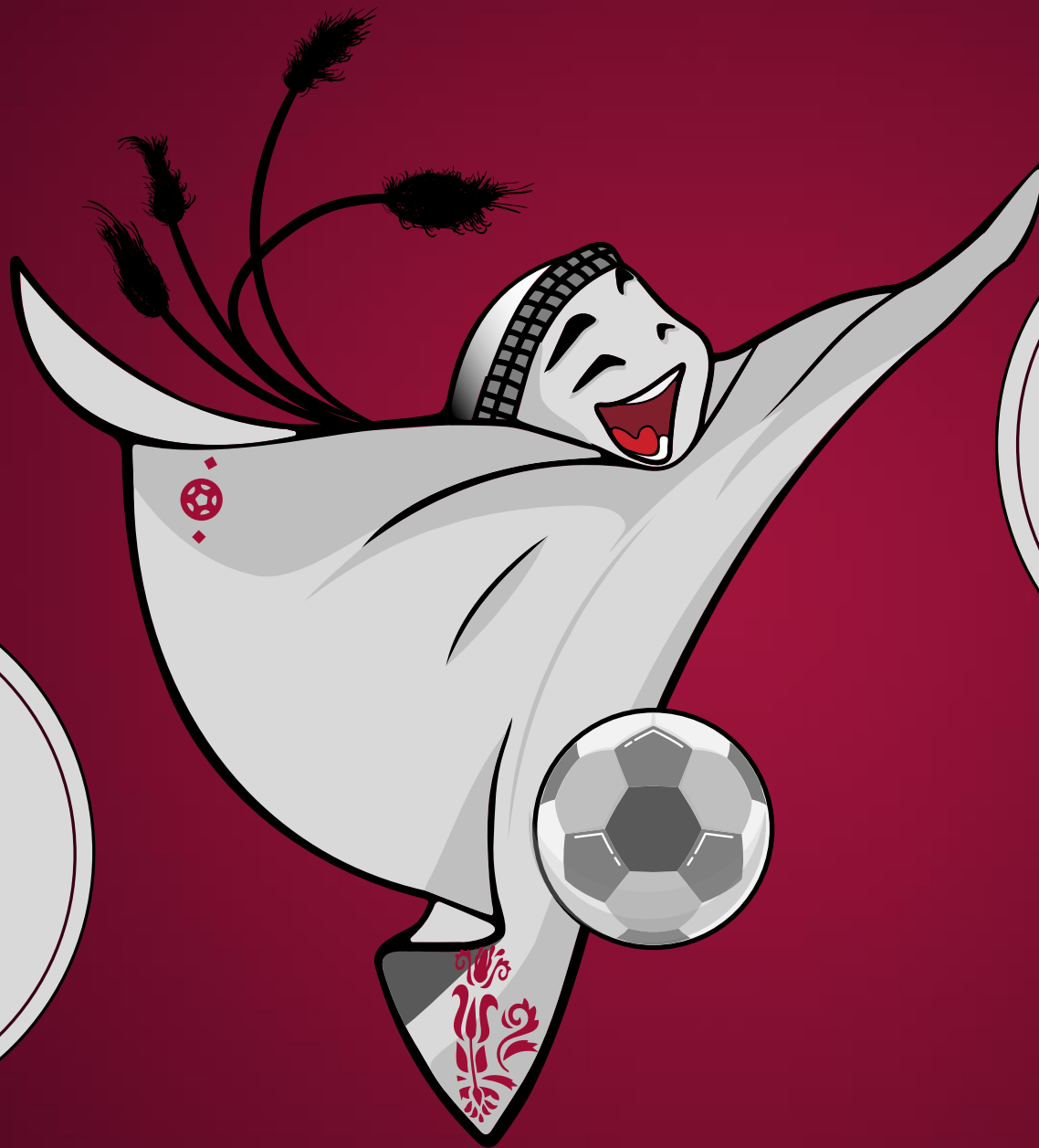
```
1  -- Retrieve match details from Group A, where the referee's name starts with "M", ordered by the match number
2  • select distinct m.Number as match_number , tp.Team_name1 ,
3    tp.Team_name2 , t.Group_Name , r.Name as referee_name , o.Role
4  from ((team t join team_played tp on t.name=tp.Team_name1 or t.name=tp.Team_name2)
5  join ( `match` m join officiate o on m.Number = o.Match_Number) on tp.Match_Number = m.Number)
6    join referee r on o.Referee_Ssn=r.Ssn
7  where t.Group_Name='Group A' and r.Name like 'M%'
8  order by m.Number asc
9
```

Result Grid						
Filter Rows: <input type="text"/> Export: Wrap Cell Content:						
	match_number	Team_name1	Team_name2	Group_Name	referee_name	Role
▶	1	Qatar	Ecuador	Group A	Michael Oliver	Fourth Official
	24	Netherlands	Ecuador	Group A	Mahmoud Al Banna	Main Referee
	24	Netherlands	Ecuador	Group A	Maguette Ndiaye	Fourth Official
	24	Netherlands	Ecuador	Group A	Matthew Conger	VAR
	49	Netherlands	USA	Group A	Michael Oliver	Fourth Official
	52	England	Senegal	Group A	Mustapha Ghorbal	Assistant Referee 1
	58	Argentina	Netherlands	Group A	Mustapha Ghorbal	Assistant Referee 1



A_MAK

Thank
You



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