The Entities are ;

TEAM :

|  |  |
| --- | --- |
| Team\_id | Team\_Name |
|  |  |

* In this table, Team\_id is the primary key .
* And team Name stores the name of the teams.

VENUE :

|  |  |
| --- | --- |
| Venue\_id | Venue\_name |
|  |  |

* In this table, venue\_id is the primary key.
* Venue name stores the venue name.

MATCH PLAYED TABLE:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MATCH\_ID | Date | Venue\_id | Team1\_id | Team2\_id |
|  |  |  |  |  |

* Match\_id -> Primary key
* Team1\_ID -> foreign key references Team table (team\_id)
* Team2\_id-> foriegn key references team table(team\_id)
* venue\_id->foreign key references venue table(venue\_id)

CAPTAIN TABLE:

|  |  |  |
| --- | --- | --- |
| MATCH\_ID | Team\_id | Captain |
|  |  |  |

* Match\_id + Team\_id-> Primary key
* Team\_id-> foreign key references tem (team\_id)
* Match\_id -> foreign key references team(team\_id)

Result :

|  |  |  |
| --- | --- | --- |
| Match\_id | Toss\_won | Match\_won |
|  |  |  |

* Match\_id -> primary key
* Match\_id -> foriegn key references match(match\_id);

Sample Queries:

1. Matches own by a particular team:

Select count(match\_won) from Result where Match\_won = “name\_of\_the\_team”;

1. Which teams a playing in a particular date:

Select team\_id from team\_table where team\_id in (select team1\_id from MATCH\_table where date = ‘dd-mm-yyyy’) UNION Select team\_id from team\_table where team\_id in (select team2\_id from match\_table where date = ‘dd-mm-yyyy’) ;

1. Teams own in a particular date

Select team\_name from team\_table where team\_id in(Select match\_won from result\_table where match\_id in(Select match\_id from match\_table where date = ‘dd-mm-yyyy’)));

1. List of the venues where a team has won:

Select venue\_name from venue\_table where venue\_id in (Select venue\_id from match\_table where match\_id in (Select match\_id from result\_table where match\_own in(Select team\_id from team\_table where team\_name = “team\_name”)))

1. List of the venues where a team has not played:

Select venue\_name from venue\_table where venue\_id not in (Select venue\_id from match\_table where team1\_id in(Select team\_id from team\_table where team\_name = “team\_name”)) Or (select venue\_id from match\_table where team2\_id in(select team\_id from team\_table where team\_name = “ team\_name”));

1. List of venues where the team has lost:

Select venue\_name from venue\_table where venue\_id in (Select venue\_id from match\_table where match\_id in (Select match\_id from result\_table where match\_won not in(Select team\_id from team\_table where team\_name = “team\_name”)));

**I have faced some problem in joining statement that is**

**The match has two ids for team so i further divide the table match into**

**MATCH\_PALCE\_DATE:**

|  |  |  |
| --- | --- | --- |
| **MATCH\_ID** | **DATE** | **VENUE\_ID** |
|  |  |  |

**MATCH TEAM1:**

|  |  |
| --- | --- |
| **MATCH\_ID** | **TEAM1\_ID** |
|  |  |

**MATCH TEAM2:**

|  |  |
| --- | --- |
| **MATCH\_ID** | **TEAM2\_ID** |
|  |  |

**This is solving probably al the problems in this database.**

**Update:**

**The problem of joining was solved, the join can be done with the pervious entites only no need to divide the table further with each teams.**

**The Join query can be written in this way:**

**select \* from ((team\_table t inner join match\_table t1 on t.team\_id = t1.team1\_id) inner join match\_table t2 on t.team\_id = t2.match\_id) .**

**This will join the team table with the match table which was creating a problem and this is solved now.**