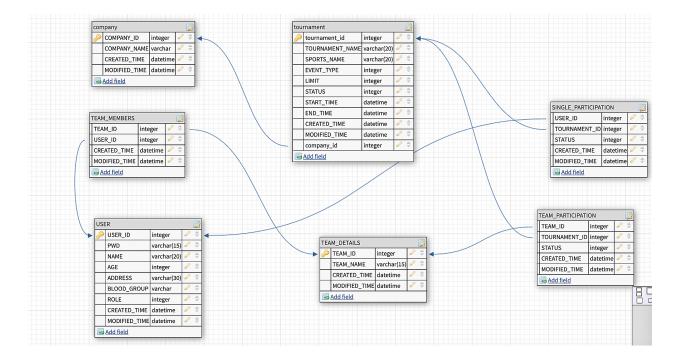
<u>Sports Tournament Management Database</u> <u>Design:</u>

Table of Contents

Sports Tournament Management Database Design:
Sports Tournament DB Schema :
CREATION OF DB CMD:
CREATE DATABASE DBNAME;
LIST OF OPERATIONS :
INSERT AND SELECTION CMDS:
DB CMDS:
CREATE DATABASE sports_team;
CREATED A TOURNAMENT TABLE :
INSERTION CMD:
DELETE CMD :
CREATED TEAM TABLE ;
FINAL UPDATED CODE :
DB NEW TEAM;
DB New Players;
FINAL SPORTSDB.SQL FILE CODE AND RESULT:
SINGLE SQL FILE CODE :
Selection Operation Of Tables

SPORTS TOURNAMENT DB SCHEMA:



CREATION OF DB CMD:

CREATE DATABASE DBNAME;

- CREATE TABLE Tournament(TOURNAMENT_ID INT PRIMARY KEY NOT NULL, TOURNAMENT_NAME
 CHAR(50) NOT NULL, SPORTS TEXT NOT NULL, NO_OF_TEAMS INT NOT NULL, EVENT_TYPE
 CHAR(50));
- CREATE TABLE team(team_id INT PRIMARY KEY NOT NULL, team_name CHAR(50) NOT NULL, no_of_people INT NOT NULL, TOURNAMENT_ID INT);

LIST OF OPERATIONS:

INSERT AND SELECTION CMDS:

Q~ raj					⊗ ⟨>> Don
	1 Hackaton	cricket	2	team	
:	2 Hackaton2	football	4	team	
(2 rows)					
	9=# select * from team ; team_name	no_of_people	tournament_id		
1 ra 1 ra		5		•	
ravind-pt6089 NSERT 0 1	9=# insert into team aravind-pt6089=# 9=# insert into team (team_id , team_name , no_of	_people , TOURNA	AMENT_ID) values	s (2,'ram_team',6,2);	
team_id	9=# select * from team ;	no_of_people	tournament_id		
1 raj 2 ran 2 rows)	j_team	5 6		•	
eravind-pt6089 tournament_id	· -				
 :	+		2		
;	2 Hackaton2	football	4	team	
2 rows)					
team_id	9=# SELECT * FROM TEAM; team_name	no_of_people	tournament_id		
1 raj 2 ran 2 rows)	j_team	5 6		•	
aravind-pt6089	9=#				

DB CMDS:

CREATE DATABASE SPORTS_TEAM;

tourname	nt_id	tournament_name spo			sports_name	!	no_of_teams	event_type	stat	tus	start		ending
(3 rows)		ac wn ou			cricket hockey football	 	2 4 4	single team team	start start start	2022-	09-09 06:26:36.4577 09-09 06:26:36.4590 09-09 06:26:36.4594	21+05:30	2022-09-09 06:26:36.457764+05:30 2022-09-09 06:26:36.459021+05:30 2022-09-09 06:26:36.459446+05:30
team_id	te	am_nam	ie	no_o1	_people_allowed	sport	s_name						
1 2 3 (3 rows)	raju ram ram		 	4 5 6		+ crick crick hocke	et						
user_id	sports_	name		r	name	age	!	address		blood_group	pwd	team_id	
1 2 3 (3 rows)	FOOT BA	LL j	VIRAT RONALDO DHONI			30 31 35	MUMBAI UK DELHI			0+ B+ A+	VIRAT123 RONALDO123 DHONI123	1 2 1	_
s_id to	ournament,	_id	user_id		status								
1 2 3 (3 rows)		1 1 2	2	WIN WIN LOSE									
s_id t	eam_id	tourna	ment_id		status								
2 3 (2 rows)	1			LOSE WIN									
sports_to	urnament1	23=#											

- CREATE TABLE team(team_id INT PRIMARY KEY NOT NULL, team_name CHAR(50) NOT NULL, no_of_people INT NOT NULL,SPORTS_NAME TEXT NOT NULL, TOURNAMENT_ID INT NOT NULL foreign key);
- insert into team (team_id , team_name , no_of_people , TOURNAMENT_ID) values (1,'raj_team',5,'cricket',1);
- select * from team;

tourname	ournament_id tournament_name			sports_name	ļ	no_of_teams	event_type	stat	us	start		ending ending
(3 rows)	1 tac 2 twn 3 tou		j	cricket hockey football	 	4	single team team	start start start	2022-0	9-09 06:26:36.4577 9-09 06:26:36.4590 9-09 06:26:36.4594	21+05:30	2022-09-09 06:26:36.457764+05:30 2022-09-09 06:26:36.459021+05:30 2022-09-09 06:26:36.459446+05:30
team_id	team_n	ame	no_of_	_people_allowed	sport	s_name						
1 2 3 (3 rows)	ram		4 5 6		crick crick	et						
user_id	sports_name	!	na	ame	age	!	address	!	blood_group	pwd	team_id	_
1 2 3 (3 rows)	CRICKET FOOT BALL CRICKET	VIRAT RONALDO DHONI			30 31 35	MUMBAI UK DELHI			O+ B+ A+	VIRAT123 RONALD0123 DHONI123	1 2 1	
s_id t	ournament_id	user_id	!	status								
1 2 3 (3 rows)	1 1 2	1 2 3	WIN									
s_id t	eam_id tour	nament_id	ļ.	status								
2 3 (2 rows)	1 1		LOSE WIN									
sports_to	urnament123=#	1										

- insert into tournament (TOURNAMENT_ID ,TOURNAMENT_NAME , SPORTS , NO_OF_TEAMS , EVENT_TYPE)
 VALUES(1,'Hackaton','cricket',2,'team');
- insert into tournament (TOURNAMENT_ID ,TOURNAMENT_NAME , SPORTS , NO_OF_TEAMS , EVENT_TYPE)
 VALUES(2,'Hackaton2','football',4,'team');
- select * from tournament;
- select * from team;
- insert into team (team_id , team_name , no_of_people , TOURNAMENT_ID) values (2,'ram_team',6,'cricket',2);
- CREATE TABLE players(player_id INT PRIMARY KEY NOT NULL, sports_name CHAR(50) NOT NULL, player_name char(50) NOT NULL, age int NOT NULL, address CHAR(50), blood_group char(3) ,team_id INT foreign key NOT NULL);

- insert into players (player_id, sports_name, player_name, age, address, blood_group) values (1,'cricket','aravind',22,'address 123','A+',1);
- select * from players;

CREATED A TOURNAMENT TABLE:

 CREATE TABLE Tournament(TOURNAMENT_ID INT NOT NULL, TOURNAMENT_NAME CHAR(20) NOT NULL, SPORTS_NAME CHAR(10) NOT NULL, NO_OF_TEAMS INT NOT NULL, EVENT_TYPE CHAR(10) ,start_time time ,end_time time,PRIMARY KEY(TOURNAMENT_ID));

INSERTION CMD:

insert into tournament
 (tournament_id,tournament_name,sports_name,no_of_teams,event_ty
 pe) values (2,'hackaton','cricket',2,'team');

DELETE CMD:

delete from tournament where tournament_id=1;

```
[sports_team12'# \d
sports_team12'#
 sports_team12(# )
 sports_team12-#;
ERROR: syntax error at or near "team"
|LINE 1: ..._TEAMS,EVENT_TYPE )VALUES(1,'Hackaton','cricket;,2,'team');
sports_team12=# insert into tournament (TOURNAMENT_ID ,TOURNAMENT_NAME ,SPORTS_NAME ,NO_OF_TEAMS,EVENT_TYPE )VALUES(1,'Hackaton','cricket,2,'team');
sports_team12'# 'sports_team12(#)
 sports_team12-# ;
ERROR: syntax error at or near "team"

LINE 1: ...F_TEAMS,EVENT_TYPE )VALUES(1,'Hackaton','cricket,2,'team');
sports_team12=# insert into tournament (TOURNAMENT_ID ,TOURNAMENT_NAME ,SPORTS_NAME ,NO_OF_TEAMS,EVENT_TYPE )VALUES(1,'Hackaton','cricket,2);
sports_team12'# insert into tournament (TOURNAMENT_ID ,TOURNAMENT_NAME ,SPORTS_NAME ,NO_OF_TEAMS,EVENT_TYPE )VALUES(1,'Hackaton','cricket',2);
sports team12'# '
 sports_team12(# )
sports_team12-#;
ERROR: syntax error at or near "Hackaton"
[LINE 2: ...,SPORTS_NAME ,NO_OF_TEAMS,EVENT_TYPE )VALUES(1,'Hackaton',...
sports_team12=# insert into tournament (tournament_id,tournament_name,sports_name,no_of_teams,event_type) values (1,'hackaton','cricket',2,'team');
[ERROR: duplicate key value violates unique constraint "tournament_pkey"

DETAIL: Key (tournament_id)=(1) already exists.
sports_team12=# \d
List of relations
 Schema |
               Name
                         | Type |
public | tournament | table | aravind-pt6089
[(1 row)
 sports_team12=# select * from tournament ;
 tournament_id | tournament_name | sports_name | no_of_teams | event_type
                1 | Hackaton
                                                | cricket
                                                                                2 | team');
(1 row)
|sports_team12=# insert into tournament (tournament_id,tournament_name,sports_name,no_of_teams,event_type) values (2,'hackaton','cricket',2,'team');
 INSERT 0 1
|sports_team12=# select * from tournament;
 tournament_id | tournament_name | sports_name | no_of_teams | event_type
                1 | Hackaton
                                                | cricket
                                                                                2 | team');
                                                cricket
                2 | hackaton
(2 rows)
lsports team12=# delete from tournament where tournament_id=1;
sports team12=# select * from tournament;
  tournament_id | tournament_name
                                               | sports_name | no_of_teams | event_type
                 2 | hackaton
                                                | cricket
                                                              - 1
(1 row)
```

sports_team12=#

[sports_team12=# select * from tournament ; tournament_id | tournament_name | sports_name | no_of_teams | event_type cricket 2 | hackaton team hackaton cricket team hackaton hockey team 4 | hackaton hockey team (4 rows)

sports_team12=#

CREATED TEAM TABLE;

```
CREATE TABLE
|sports_team12=# \d team
           Table "public.team"
   Column | Type
                              Modifiers
 team_id
              integer
                               not null
 team_name
              | character(50) | not null
 no_of_people | integer
                               not null
                               not null
 sports_name | text
 tournament_id | integer
                              | not null
Indexes:
   "team_pkey" PRIMARY KEY, btree (team_id)
Foreign-key constraints:
    "team_tournament_id_fkey" FOREIGN KEY (tournament_id) REFERENCES tournament(tournament_id)
|sports_team12=# select * from team ;
 team_id | team_name | no_of_people | sports_name | tournament_id
(0 rows)
sports_team12=#
```

FINAL UPDATED CODE:

DB NEW TEAM;

- CREATE TABLE team(team_id INT NOT NULL, team_name CHAR(50) NOT NULL, no_of_people INT NOT NULL,SPORTS_NAME TEXT NOT NULL, TOURNAMENT_ID INT NOT NULL,PRIMARY KEY (team_id), foreign key(TOURNAMENT_ID) references tournament(TOURNAMENT_ID));
- insert into team (team_id,team_name
 ,no_of_people,sports_name,tournament_id) values
 (1,'abc',5,'hockey',1);
- insert into team (team_id,team_name
 ,no_of_people,sports_name,tournament_id) values (2,'ab',2,'tennis',1);
- insert into team (team_id,team_name
 ,no_of_people,sports_name,tournament_id) values (3,'ab',5,'tennis',2);
- insert into team (team_id,team_name
 ,no_of_people,sports_name,tournament_id) values
 (2,'abcd',5,'hockey',2);

DB NEW PLAYERS;

- CREATE TABLE players(player_id INT NOT NULL,team_id INT NOT NULL,sports_name CHAR(20) NOT NULL, player_name char(20) NOT NULL, age int NOT NULL, address CHAR(25), blood_group char(3) ,primary key(player_id), foreign key(team_id) references team(team_id));
- insert into players
 (player_id,team_id,sports_name,player_name,age,address,blood_group) values (1,1,'cricket','ab',22,'ghj','A+');
- insert into players
 (player_id,team_id,sports_name,player_name,age,address,blood_group) values (2,2,'cricket','abc',12,'ghjfg','A+');
- insert into players
 (player_id,team_id,sports_name,player_name,age,address,blood_group) values (3,3,'hockey','afrc',23,'ghdfjfg','o+');

FINAL SPORTSDB.SQL FILE CODE AND RESULT:

SINGLE SQL FILE CODE:

- create database sports_tournament123;
- \c sports_tournament123;
- CREATE TABLE tournament(TOURNAMENT_ID INT NOT NULL, TOURNAMENT_NAME CHAR(20) NOT NULL, SPORTS_NAME CHAR(20) NOT NULL, NO_OF_TEAMS INT NOT NULL, EVENT_TYPE CHAR(10),STATUS CHAR(10),PRIMARY KEY(TOURNAMENT_ID));
- alter table tournament add column start TIMESTAMP WITH TIME ZONE DEFAULT CURRENT_TIMESTAMP;
- alter table tournament add column ending TIMESTAMP WITH TIME ZONE DEFAULT CURRENT_TIMESTAMP;
- CREATE TABLE TEAM(TEAM_ID INT NOT NULL, TEAM_NAME CHAR(20) NOT NULL, NO_OF_PEOPLE_ALLOWED CHAR(20) NOT NULL,SPORTS_NAME CHAR(10), PRIMARY KEY(TEAM_ID));
- CREATE TABLE USERS(USER_ID INT PRIMARY KEY NOT NULL,SPORTS_NAME CHAR(10) NOT NULL,NAME CHAR(30) NOT NULL,AGE INT NOT NULL,ADDRESS CHAR(30) NOT NULL,BLOOD_GROUP CHAR(3) NOT NULL,PWD CHAR(15) NOT NULL,TEAM_ID INT NOT NULL,FOREIGN KEY(TEAM_ID) REFERENCES TEAM(TEAM_ID));

- CREATE TABLE SINGLE_PLAYER(S_ID INT PRIMARY KEY NOT NULL,TOURNAMENT_ID INT NOT NULL,USER_ID INT NOT NULL,STATUS CHAR(30) NOT NULL,FOREIGN KEY(TOURNAMENT_ID) REFERENCES TOURNAMENT(TOURNAMENT_ID),FOREIGN KEY(USER_ID) REFERENCES USERS(USER_ID));
- CREATE TABLE TEAM_PLAYER(S_ID INT PRIMARY KEY NOT NULL, TEAM_ID INT NOT NULL, TOURNAMENT_ID INT NOT NULL ,STATUS CHAR(30) NOT NULL, FOREIGN KEY(TEAM_ID) REFERENCES TEAM(TEAM_ID), FOREIGN KEY(TOURNAMENT_ID) REFERENCES TOURNAMENT(TOURNAMENT_ID));
- INSERT INTO
 TEAM_PLAYER(S_ID,TEAM_ID,TOURNAMENT_ID,STATUS)
 VALUES(1,1,1,'WIN');
- insert into tournament (tournament_id ,tournament_name ,sports_name,no_of_teams,event_type,status,start,ending) values (1,'tac','cricket',2,'single','start',NOW(),NOW());
- insert into tournament (tournament_id ,tournament_name ,sports_name,no_of_teams,event_type,status,start,ending) values (2,'twn','hockey',4,'team','start',NOW(),NOW());
- insert into tournament (tournament_id ,tournament_name ,sports_name,no_of_teams,event_type,status,start,ending) values (3,'tou','football',4,'team','start',NOW(),NOW());

insert into team (team_id,team_name,no_of_people_allowed,sports_name) values (1,'raju',4,'cricket');

insert into team (team_id,team_name,no_of_people_allowed,sports_name) values (2,'ram',5,'cricket');

- insert into team
 (team_id,team_name,no_of_people_allowed,sports_name) values
 (3,'ramu',6,'hockey');
- INSERT INTO
 USERS(USER_ID,SPORTS_NAME,NAME,AGE,ADDRESS,BLOOD_GR
 OUP,PWD,TEAM_ID)
 VALUES(1,'CRICKET','VIRAT',30,'MUMBAI','0+','VIRAT123',1);

INSERT INTO

USERS(USER_ID,SPORTS_NAME,NAME,AGE,ADDRESS,BLOOD_GR OUP,PWD,TEAM_ID) VALUES(2,'FOOT BALL','RONALDO',31,'UK','B+','RONALDO123',2);

INSERT INTO

USERS(USER_ID,SPORTS_NAME,NAME,AGE,ADDRESS,BLOOD_GROU P,PWD,TEAM_ID)
VALUES(3,'CRICKET','DHONI',35,'DELHI','A+','DHONI123',1);

• INSERT INTO

SINGLE_PLAYER(S_ID,TOURNAMENT_ID,USER_ID,STATUS)
VALUES(1,1,1,'WIN');

INSERT INTO

SINGLE_PLAYER(S_ID,TOURNAMENT_ID,USER_ID,STATUS)
VALUES(2,1,2,'WIN');

• INSERT INTO

SINGLE_PLAYER(S_ID,TOURNAMENT_ID,USER_ID,STATUS)
VALUES(3,2,3,'LOSE');

INSERT INTO

TEAM_PLAYER(S_ID,TEAM_ID,TOURNAMENT_ID,STATUS) VALUES(2,1,3,'LOSE');

INSERT INTO

TEAM_PLAYER(S_ID,TEAM_ID,TOURNAMENT_ID,STATUS)
VALUES(3,1,1,'WIN');

Selection Operation Of Tables

- SELECT * FROM TOURNAMENT;
- SELECT * FROM TEAM;
- SELECT * FROM USERS;
- SELECT * FROM SINGLE_PLAYER;
- SELECT * FROM TEAM_PLAYER;

```
| State | Stat
```