A

Project Report On

**SPORTS EVENT MANAGEMENT SYSTEM**

Developed by

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**Guided By**

### Internal Guide:

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# Department of Information Technology Faculty of Technology, Dharmsinh Desai University

**College Road, Nadiad-387001 October-2021**

# DHARMSINH DESAI UNIVERSITY NADIAD-387001, GUJARAT



**CERTIFICATE**

This is to certify that the project entitled “Sports Event Management System” is a bonafied report of the work carried out by

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# ACKNOWLEDGEMENT

We would like to give our sincere acknowledgement to everybody responsible for the successful completion of our project “**SPORTS EVENT MANAGEMENT SYSTEM**”.

The success and final outcome of this project required a lot of guidance and assistance from many people and we are extremely privileged to have got this all along the completion of this project.

We owe our deep gratitude to our project guide Prof.Archana N Vyas , who took been interest on our project work and guided us all along till the completion of our project work by providing all the necessary help for developing a good Database System.

We would also like to thank all our lecturers.

Finally we convoy our acknowledgement to all our friends and family members who directly or indirectly associated with us in the successful completion of the project .We thank one and all.

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## SYSTEM OVERVIEW

#### CURRENT SYSTEM

* + - Tasks and responsibilities of Sports Event Management System’s administrator: Event management and planning;

Managing sports event and competitions.

* + - the proposed system involves registration of players through computers. and it restricts
    - some school or college organize sports events then they do the registration of the players are manual using paper forms. Using this kind of system, it is difficult to fetch some players or winner information and it is also difficult to fetch particular sports detail.
    - duplication of player's registration.

#### OBJECTIVE OF THE PURPOSED SYSTEM

* + - automate and facilitate of managing the sports events from.
    - organizer can get whole data of students, coach, team..
    - organizers also can enter details related to them like competition detail, venue and sponsor detail and store this kind of information together in meaning way.
    - It is easy for the admin to store data and it also provides data security.
    - get information like number of players who participating on particular sport, winner detail, age and gender wise players details.

#### ADVANTAGES OF THE PURPOSED SYSTEM

Through this system we try to achieve the below objectives

* + - Overcomes the dependency of a single person handling all the sport activity.
    - Multiple teacher can use the web interface to login and perform desired task.
    - It will become easy for handling the event.
    - It will easy to access the system anywhere and anytime.
    - admin can easily arrange the competition and store the data.

#### ENTITIES

* + - Players
    - Coach
    - Sports
    - Competition
    - Team
    - Winner
    - Sponsor
    - Venue

#### USER ROLES

* + - Player
    - Admin

#### ROLE WISE REQUIREMENT LISTING

##### Player:

* + - * Player has unique username and id for

entering in sports event.

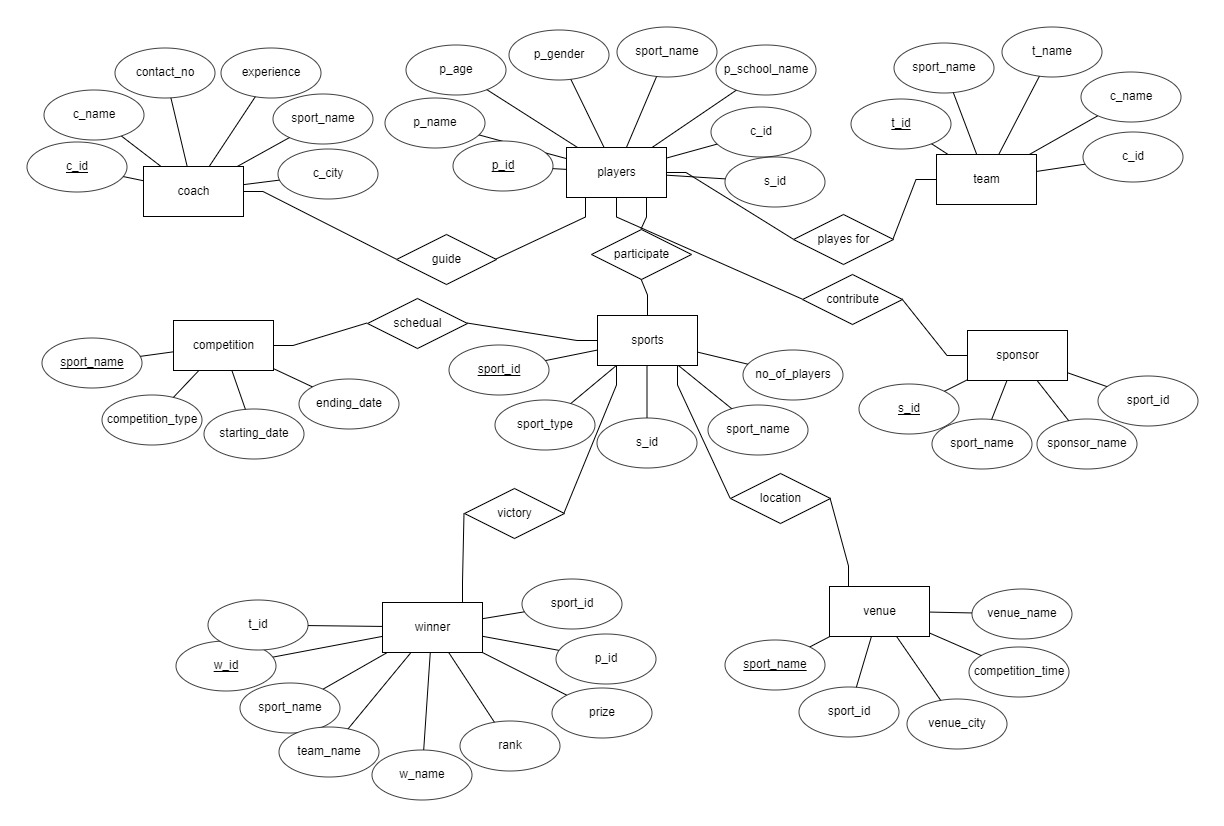
* + - * Player can participate any one sport event.
      * Player can choose any coach for training purpose.

##### Admin:

* + - * Admin is responsible for leading and managing sports event.
      * Admin is responsible for different tasks such as

Deciding winners, keep details of players and sponsors ,..etc.

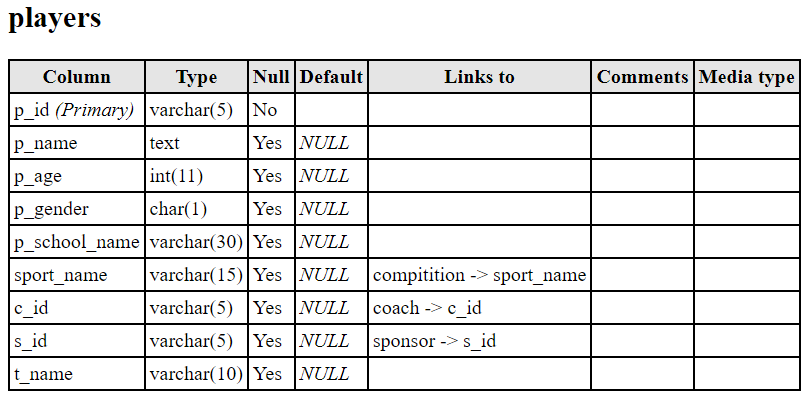
# ER-DIAGRAM



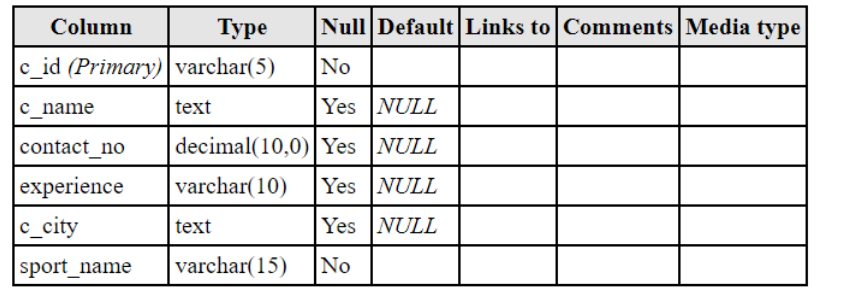
v

## TABLE DESIGN

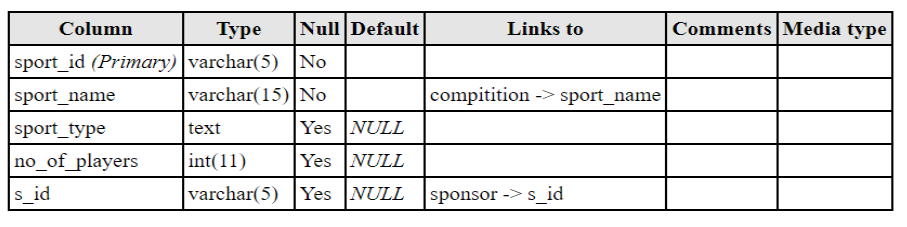
##### PLAYERS

****

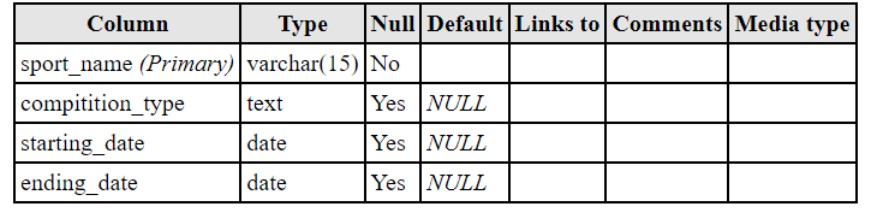
* 1. **COACH**



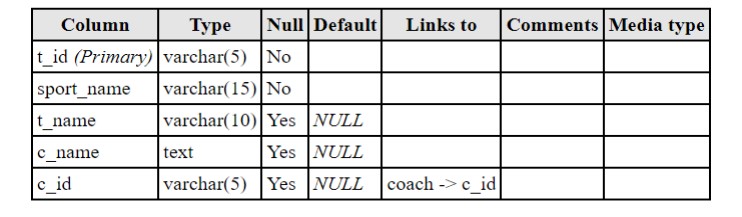
##### SPORTS



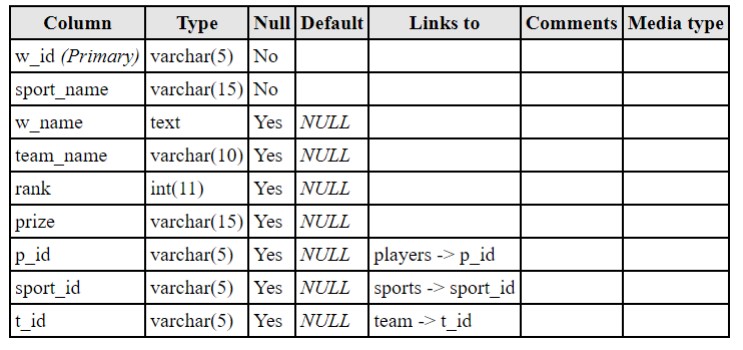
* 1. **COMPETITION**



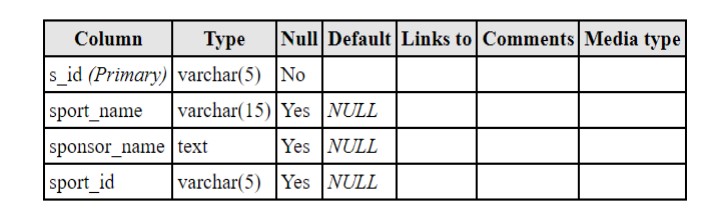
##### TEAM

****

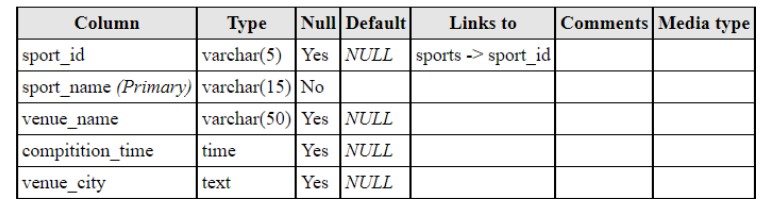
* 1. **WINNER**

****

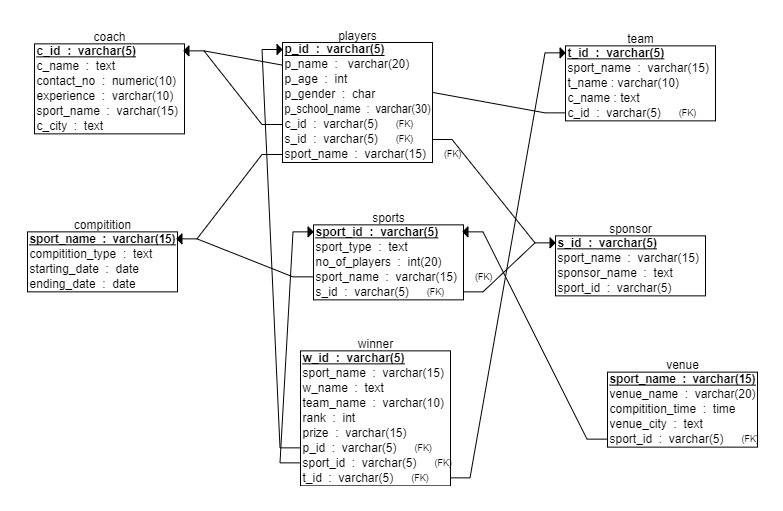
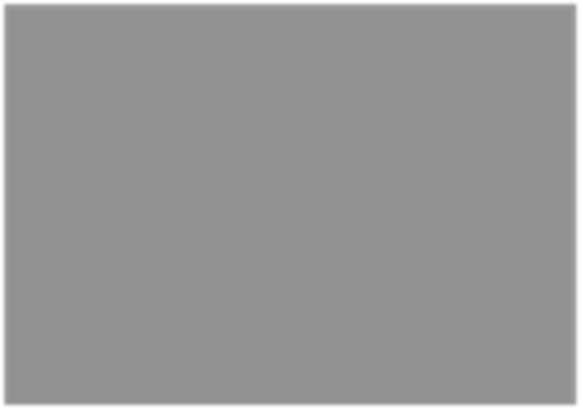
##### SPONSOR

****

* 1. **VENUE**

****

## SCHEMA DIAGRAM



* 1. **DATABASE IMPLEMENTATION**

### CREATE SCHEMA

#### PLAYERS

create table players (

p\_id varchar(5) primary key,

p\_name text,

p\_age int,

p\_gender char,

p\_school\_name varchar(30),

sport\_name varchar(15),

c\_id varchar(5),

s\_id varchar(5),

t\_name varchar(10));

#### COACH

create table coach (

c\_id varchar(5) primary key,

c\_name text,

contact\_no numeric(10),

experience varchar(10),

c\_city text,

sport\_name varchar(15) not null

);

#### SPORTS

create table sports (

sport\_id varchar(5) primary key,

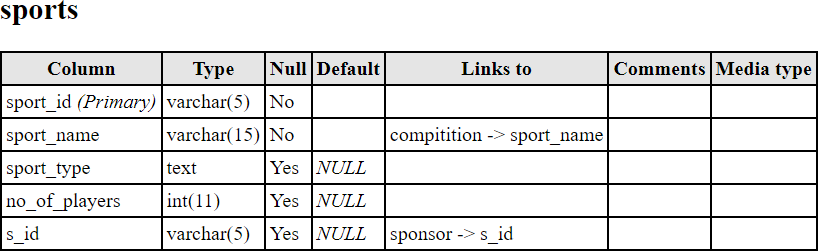
sport\_name varchar(15) not null,

sport\_type text,

no\_of\_players int,

s\_id varchar(5)

);



#### COMPETITION

create table compitition (

#### sport\_name varchar(15) primary key,

#### compitition\_type text,

#### starting\_date date,

#### ending\_date date);

#### TEAM

create table team (

t\_id varchar(5) primary key,

sport\_name varchar(15) not null,

t\_name varchar(10),

c\_name text,

c\_id varchar references coach(c\_id)

);

#### WINNER

create table winner(

w\_id varchar(5) primary key,

sport\_name varchar(15) not null,

w\_name text,

team\_name varchar(10),

rank int,

prize varchar(15),

p\_id varchar(5) references players(p\_id),

sport\_id varchar(5) references sports(sport\_id),

t\_id varchar(5) references team(t\_id));

#### SPONSOR

create table sponsor (

s\_id varchar(5) primary key,

sport\_name varchar(15),

sponsor\_name text,

sport\_id varchar(5)

);

#### VENUE

create table venue(

sport\_id varchar(5) references sports(sport\_id),

sport\_name varchar(15) primary key,

venue\_name varchar(20),

compitition\_time time,

venue city text);

### INSERT DATA VALUE

#### Players

insert into players values(‘p101','Smriti Mishra',18,'F','Panjab University',

‘relay','c12','s1',’R1’) ;

insert into players values(‘p102','Divya Shah,19,'F','Marlboro College', ‘relay','c12','s1',’R1’) ;

insert into players values(‘p103','Payal Dave',18,'F','Izmir Institute of Technology', ‘relay','c12','s1',’R1’) ;

insert into players values(‘p104','Kajal Gandhi',20,'F','Universidad Monteavila', ‘relay','c12','s1',’R1’) ;

insert into players values(‘p105','Diya Mehta',20,'F','William

Mitchell College of Law', ‘relay','c08','s1',’R2’) ;

insert into players values(‘p106','Khushali Dave',21,'F','Grinnell College',

‘relay','c08','s1',’R2’) ;

insert into players values(‘p107','Bhumi Patel',18,'F','St. Thomas University',

‘relay','c08','s1',’R2’);

insert into players values(‘p108','Prachi Patel',19,'F','Neelain University',

‘relay','c08','s1',’R2’);

insert into players values(‘p109','Ajay Patel',18,'M','Upper Iowa University','basket

ball','c02','s2',’B1’);

insert into players values(‘p110','Chintan Shah',19,'M','La Sierra University','basket

ball','c02','s2',’B1’);

insert into players values('p111','Harshal Pandya',20,'M','St. Lawrence University','basket

ball','c02','s2',’B1’);

insert into players values('p112','Saurabh Mehta',20,'M','Millsaps College','basket

ball','c02','s2',’B1’);

insert into players values('p113','Manan Gandhi',20,'M','Vidyasagar University','basket

ball','c02','s2',’B1’);

insert into players values('p114','Jay Pandey',19,'M','Jagannath University','basket ball','c09','s2',’B2’);

insert into players values('p115','Chirag Dabhi',19,'M','Kanazawa Gakuin University','baske t ball','c09','s2',’B2’) ;

insert into players values('p116','Jimit shah',18,'M','Springfield College','basket ball','c09','s2',’B2’) ;

insert into players values('p117','Dev Parmar',21,'M','Samford University','basket ball','c09','s2',’B2’) ;

insert into players values('p118','Hiten Patel',19,'M','Wilson College','basket ball','c09','s2',’B2’) ;

insert into players values ('p119','Khushi Joshi',19,'F','AgroParisTech','badminton','c01','s6') ;

insert into players values ('p120','Reeta Shah',19,'F','Vinoba Bhave

University','badminton','c10','s6'),;

insert into players values('p121','Karan Modi',19,'M','Rosemont

College','tennis','c03','s5') ;

insert into players values('p122','Deep Dhori',18,'M','Vidyasagar

University','tennis','c11','s5') ;

insert into players values('p123','Disha Modi',19,'F','Concord College','long

jump','c04','s3');

insert into players values ('p124','Aman Mishra',20,'M','Panjab University','long

jump','c06','s3') ;

insert into players values('p125','Ritu Pile',22,'F','Grinnell College','hurdling','c07','s4');

insert into players values('p126','Ashim Soni',19,'M','Shimer College','hurdling','c05','s4');



#### COACH

insert into coach values('c01','Rushi Dalal', 8829644591,'2 years','Prroshyan','badminton');

insert into coach values('c02','Manish Verma',6494461140,'1 year','Bochum','basket ball');

insert into coach values('c03','Sachin Joshi',5407233455,'10 months','Goragorskiy','tennis');

insert into coach values('c04','Sonu kumari',3188825906,'4 years','Jishi','long jump');

insert into coach values('c05','Rajesh Shah',5968502488,'9 months','Minle','hurdling');

insert into coach values('c06','Rajesh Verma',1528590023,'3 years','Tres Arroyos','long jump');

insert into coach values('c07','Jenish Goswani', 1455892454,'2 years','Chwaszczyno','hurdling');

insert into coach values('c08','Kirtan Oza',1258954326,'3 years','Prostki','relay');

insert into coach values('c09','Ramesh Bhatt',4526584121,'11 months','Gorodishche','basket ball');

insert into coach values('c10','Arati Bansal',5234891026,'2 years','Sokolac','badminton');

insert into coach values('c11','Denish Bhut',4582361023,'8 months','Yuchi','tennis');

insert into coach values('c12','Hiren Gohil',1485657461,'10 months','Batou','relay');



#### SPORTS:

insert into sports values(1,'relay','team',4,'s1');

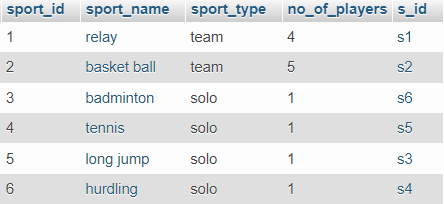
insert into sports values (2,'basket ball','team',5,'s2');

insert into sports values(3,'badminton','solo',1,'s6');

insert into sports values(4,'tennis','solo',1,'s5');

insert into sports values(5,'long jump','solo',1,'s3');

insert into sports values(6,'hurdling','solo',1,'s4');



#### Competition

insert into compitition values('relay','team','1/1/2022','1/9/2022');

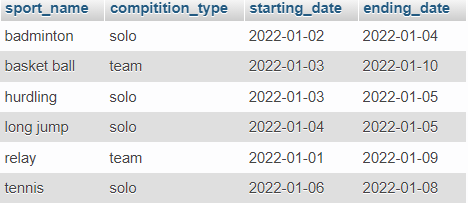
insert into compitition values('basket ball','team','1/3/2022','1/10/2022');

insert into compitition values('badminton','solo','1/2/2022','1/4/2022');

insert into compitition values('tennis','solo','1/6/2022','1/8/2022');

insert into compitition values('long jump','solo','1/4/2022','1/5/2022') ;

insert into compitition values('hurdling','solo','1/3/2022','1/5/2022');



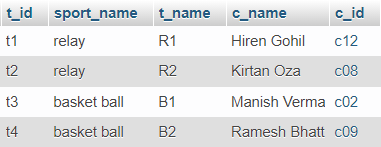
#### Team:

insert into team values('t1','relay','R1','Hiren Gohil','c12') ;

insert into team values('t2','relay','R2','Kirtan Oza','c08');

insert into team values('t3','basket ball','B1','Manish Verma','c02') ;

insert into team values('t4','basket ball','B2','Ramesh Bhatt','c09');



#### Winner

insert into winner(w\_id,sport\_name,team\_name,rank,prize,sport\_id,t\_id) values('w11','relay','R1',1,'gold medal',1,'t1');

insert into winner(w\_id,sport\_name,team\_name,rank,prize,sport\_id,t\_id) values('w12','relay','R2',2,'silver medal',1,'t2');

insert into winner(w\_id,sport\_name,team\_name,rank,prize,sport\_id,t\_id) values('w21','basket ball','B2',1,'gold medal',2,'t3');

insert into winner(w\_id,sport\_name,team\_name,rank,prize,sport\_id,t\_id) values('w22','basket ball','B1',2,'silver medal',2,'t4');

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id) values('w31','badminton','Khushi Joshi',1,'gold medal','p119',3);

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id) values('w32','badminton','Reeta Shah',2,'silver medal','p120',3);

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id) values('w41','tennis','Deep Dhori',1,'gold medal','p122',4);

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id)

values('w42','tennis','Karan Modi',2,'silver medal','p121',4);

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id)

values('w51','long jump','Aman Mishra',1,'gold medal','p124',5);

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id)

values('w52','long jump','Disha Modi',2,'silver medal','p123',5);

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id)

values('w61','hurdling','Ritu Pile',1,'gold medal','p125',6);

insert into winner(w\_id,sport\_name,w\_name,rank,prize,p\_id,sport\_id)

values('w62','hurdling','Ashim Soni',2,'silver medal','p126',6);



#### Sponsor

insert into sponsor values('S1','relay','Bharat Shah',1);

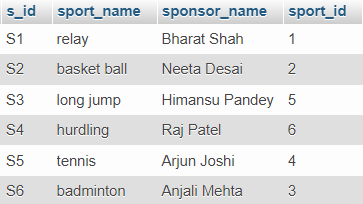
insert into sponsor values('S2','basket ball','Neeta Desai',2);

insert into sponsor values('S3','long jump','Himansu Pandey',5);

insert into sponsor values('S4','hurdling','Raj Patel',6);

insert into sponsor values('S5','tennis','Arjun Joshi',4);

insert into sponsor values('S6','badminton','Anjali Mehta',3);



#### Venue

insert into venue values(1,'relay','ground no.G2,surat','10:00:00',’ Surat’) ;

insert into venue values(2,'basket ball','shastri ground,nadiad','09:30:00',’ Nadiad’);

insert into venue values(3,'badminton','LD college,ahmedabad','14:00:00',’ Ahmedabad’);

insert into venue values(4,'tennis','st. teresa college,nadiad','16:00:00',’ Nadiad’);

insert into venue values(5,'long jump','vivekanand ,ground,baroda','11:00:00',’Baroda’) ;

insert into venue values(6,'hurdling','C.V.ground,baroda','08:50:00',’ Baroda’);



## QUERIES

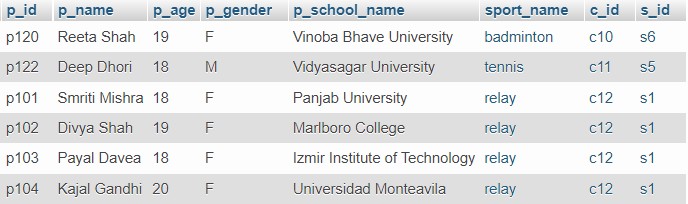
5.3.1 Display the players details whose sport name starts with ‘b’ and ends with ‘n’:

SELECT \* FROM players WHERE sport\_name LIKE 'b \_\_\_\_\_\_\_\_n';



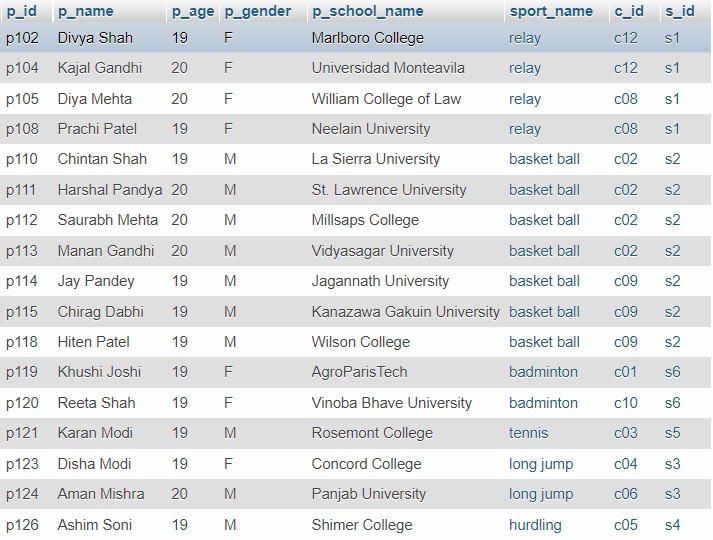
5.3.2 Display the players details whose coach is starts with ‘c1’:

SELECT \* FROM players WHERE c\_id LIKE 'c1%';



5.3.2 Display the players details whose age is in between 19 to 20.

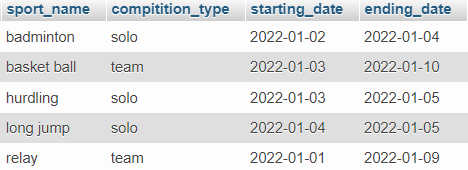
SELECT \* FROM players WHERE p\_age BETWEEN 19 AND 20;



5.3.4 Display the competition detail for the competition which is held in between date 2022-01-01 to 2022-01-05 .

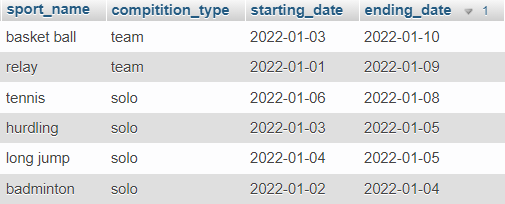
--->SELECT \* FROM compitition WHERE starting\_date BETWEEN '2022-01-01' AND

'2022-01-05';



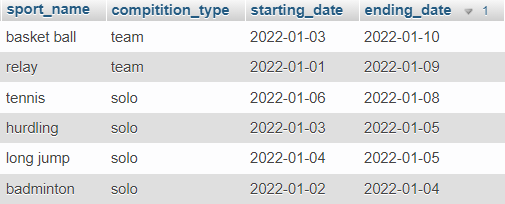
5.3.5 display the competition detail according to descending order of ending date

SELECT \* FROM compitition ORDER BY ending\_date DESC;



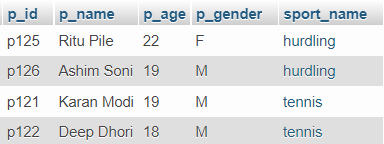
5.3.6 display the competition detail according to descending order of ending date

SELECT \* FROM compitition ORDER BY ending\_date DESC;



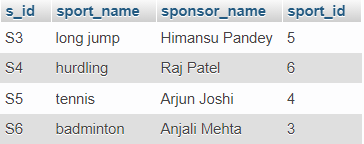
5.3.7 Display the details of players who are participating in tennis and hurdling.

--->SELECT p\_id,p\_name,p\_age,p\_gender,sport\_name FROM players WHERE sport\_name IN('tennis','hurdling');



5.3.8 Display the sponsor details for all sports excepting relay and basket ball.

SELECT \* FROM sponsor where sport\_name NOT IN('relay','basket ball');



5.3.9 Display the total number of male and female players.

SELECT COUNT(p\_gender) as total\_players, p\_gender FROM players GROUP BY p\_gender;



* 1. JOIN AND SUB QUIRIES

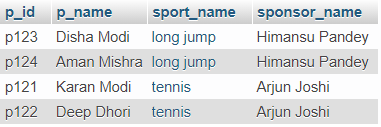
**5.4.1 Display the details of coach of the player which is participating in relay.**

---->SELECT p\_id, p\_name, players.sport\_name, players.c\_id, c\_name FROM players INNER JOIN coach ON players.c\_id = coach.c\_id WHERE players.sport\_name = 'relay';



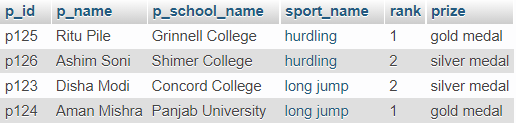
5.4.2 Display the details of player and sponsor of the long jump and tennis

--->SELECT p\_id,p\_name,players.sport\_name, sponsor\_name FROM players RIGHT JOIN sponsor ON players.s\_id = sponsor.s\_id WHERE players.sport\_name IN ('long jump', 'tennis');



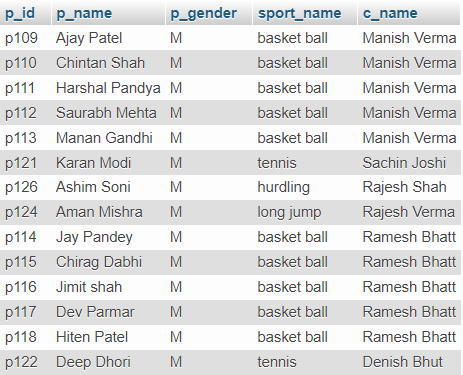
5.4.3 Display the details of the winner of the hurdling and long jump.

--->SELECT players.p\_id, players.p\_name, players.p\_school\_name, players.sport\_name, winner.rank, winner.prize FROM players INNER JOIN winner ON players.p\_id = winner.p\_id WHERE players.sport\_name IN ('long jump', 'hurdling');



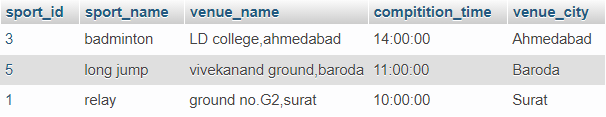
5.4.4 This query is example of sub query that shows a coach name and sport name of male player

--->SELECT p\_id, p\_name, p\_gender, sport\_name, c\_name FROM (SELECT players.p\_id, players.p\_name, players.p\_gender, players.sport\_name,coach.c\_name FROM players CROSS JOIN coach ON players.c\_id = coach.c\_id WHERE p\_gender = 'M')p;



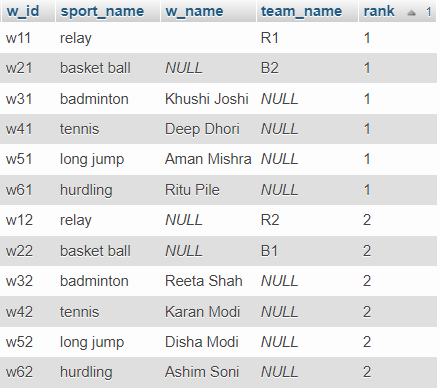
5.4.5 This query is also example of sub query that shows a details of the venue of the sport name which competition time is having between 10 to 14.

--->SELECT \* FROM venue WHERE compitition\_time IN (SELECT compitition\_time FROM venue WHERE compitition\_time BETWEEN '10:00:00' AND '14:00:00');



5.4.6 Display the winners and runner up of all sports event.

--->SELECT w\_id,sport\_name,w\_name,team\_name,rank FROM winner ORDER BY rank;



* 1. **FUNCTIONS**

5.5.1 Display the total number of players for provided age.

create function get\_total\_players(age\_from integer, age\_to integer)

returns integer

language plpgsql

as

$$

declare

total\_count int;

begin

select count(\*)

into total\_count

from players

where p\_age between age\_from and age\_to;

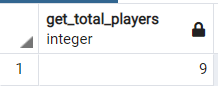
return total\_count;

end

$$;

#### OUTPUT:

select get\_total\_players(20,22);



## TRIGGERS

#### This trigger is called before data is inserted or updated into the backup table .This trigger also insert data from player table.

* Backup table is created

Create table backup(

backup\_id int primary key AUTO\_INCREMENT,

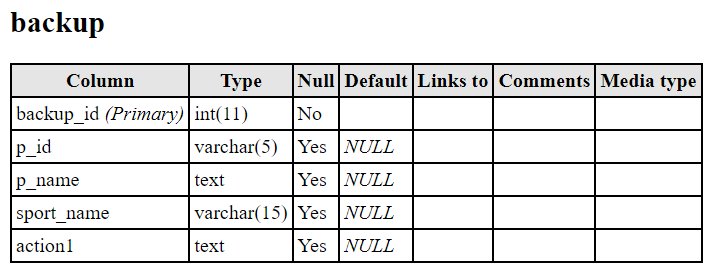
p\_id varchar(5),

p\_name text,

sport\_name varchar(15),

action1 text

);



5.6.1.1 Insert some data into backup table with the help of trigger.

1. Insert Trigger:

CREATE TRIGGER insertBackup

AFTER INSERT

ON players

FOR EACH ROW INSERT INTO backup

VALUES(null,NEW.p\_id, NEW.p\_name, NEW.sport\_name,'Inserted');

--->testing

insert INTO players VALUES('p127','Aasha Kher',20,'F','SGC Collage','hurdling','c05','s4',null);



5.6.1.2 Update some data into backup table with the help of trigger

1. update trigger:

CREATE TRIGGER updateBackup

AFTER UPDATE

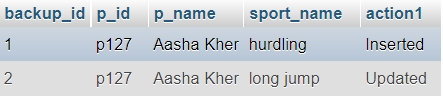
ON players

FOR EACH ROW INSERT INTO backup

VALUES(null,NEW.p\_id, NEW.p\_name, NEW.sport\_name,'Updated');

--->testing

UPDATE players set sport\_name='long jump' WHERE p\_id = 'p127';



## CURSOR

**5.7.1 Display the players whose age is less than 19.**

BEGIN

DECLARE mycur CURSOR FOR SELECT p\_name, sport\_name FROM players;

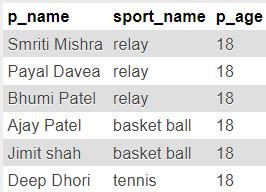
OPEN mycur;

SELECT p\_name, sport\_name,p\_age FROM players WHERE p\_age = 18;

CLOSE mycur;

END

##### OUTPUT:



## VIEWS

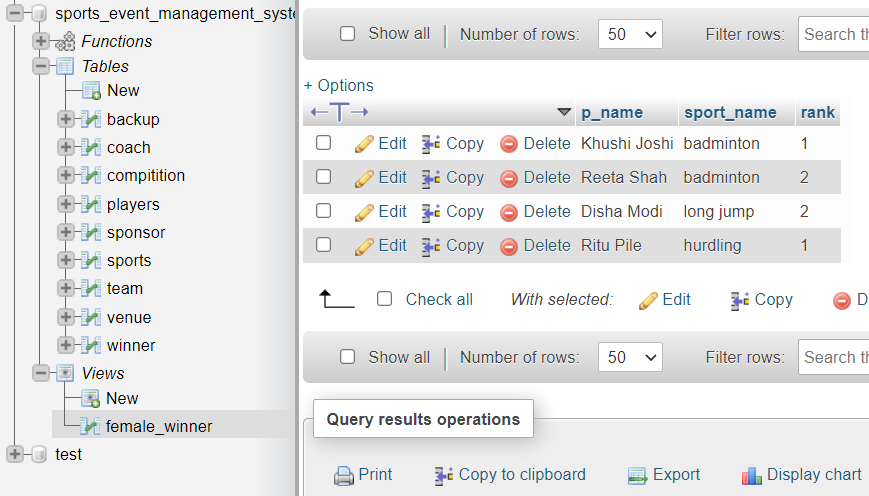
5.8.1 Create view for the female winner player.

CREATE VIEW female\_winner AS

SELECT players.p\_name, players.sport\_name, winner.rank

FROM players INNER JOIN winner ON players.p\_id = winner.p\_id

WHERE players.p\_gender = 'F';



## FUTURE ENHANCEMENS OF THE SYSTEM

* + - * We will design Front-end in HTML, CSS and JavaScript.
      * We will implement Back-end using Django.
      * We will make database more consistent, efficient and easy to implement with huge data capacity.
      * We will also add some extra features so that it will become more user friendly.

## BIBLIOGRAPHY

* + - * For implementation of this project we referred to many website and books.
      * Mostly we referred the online material for syntax of procedure, triggers, exception and cursors.
      * We created schema using mysql workbench.

**Reference Book:**

**Data Base System Concepts**

### -Henry F. Korth &A. Silberschatz

**Reference Websites:**

* + - * + **<https://www.w3schools.com/>**
        + **<https://www.tutorialspoint.com/index.htm>**
        + **<https://stackoverflow.com/>**