HOCKEY CLUB EVENTS ACTIVITY TRACKER

ROLL NO: 1602-18-737-112
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ABSTRACT

A sports club will organize several events with different player's participation in the events, on different dates and at different locations. They need to maintain record of all this events and different players participated. This database helps to keep the record of hockey club events and participations of players in those events. A new user can easily tracks the store details of different events conducted at different locations and player's participated it that events by entering his/her details into the database.
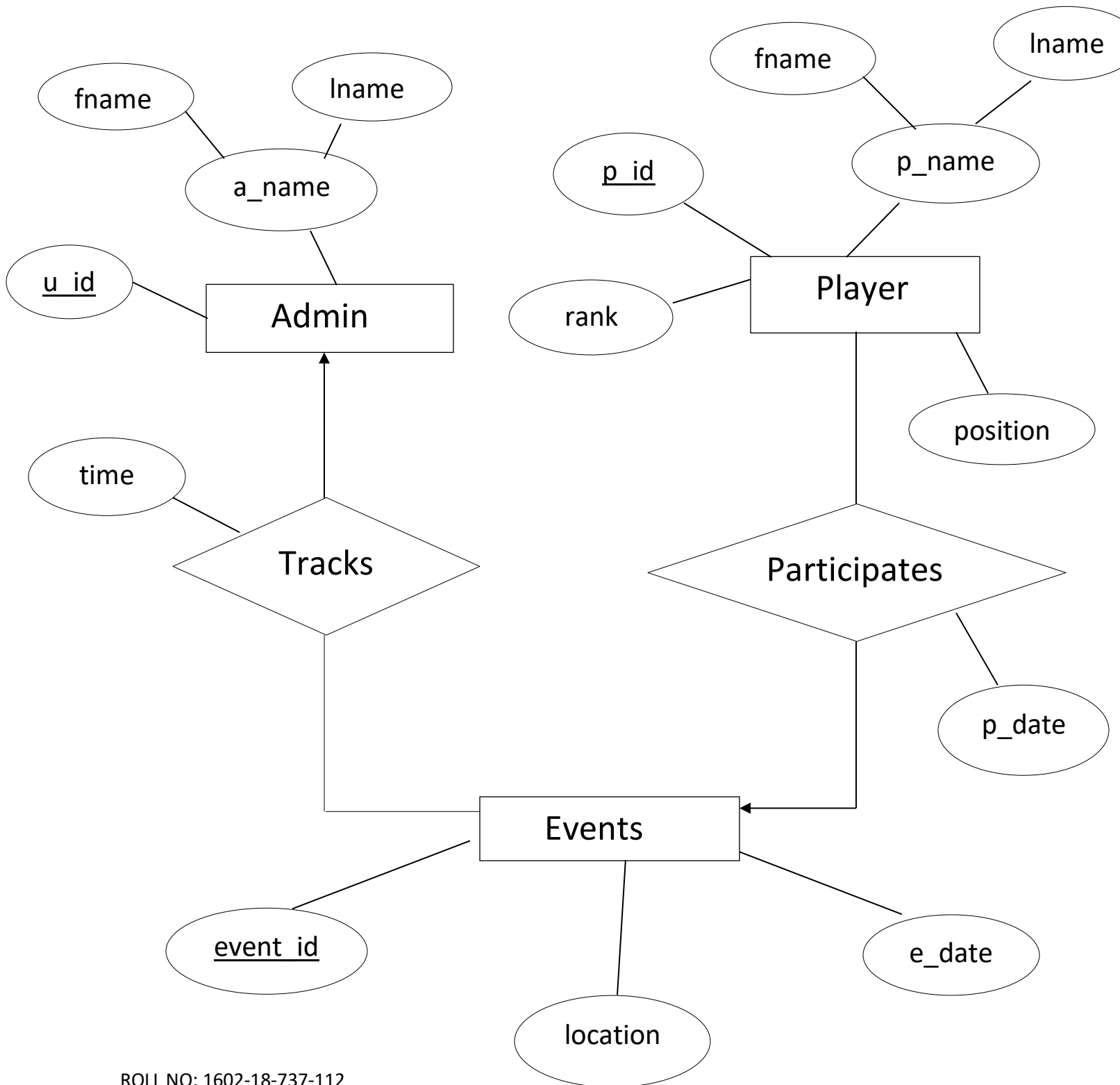
REQUIREMENT ANALYSIS:

Tables required=5

TABLE NAME	ATTRIBUTES	DOMAIN
Admin	i) u_id ii)fname iii)lname	number(5) varchar2(20) varchar2(20)
Events	i)e_id ii)location iii)e_date	number(5) varchar2(20) DATE
Tracks	i)u_id ii)e_id iii)time	number(5) number(5) varchar2(20)
Player	i)p_id ii)fname iii)lname iv)position v)rank	number(5) varchar2(20) varchar2(20) varchar2(20) number(5)
Participate	i)e_id ii)p_id	number(5) number(5)

	iii)p_date	DATE

ER DIAGRAM:

Mapping Cardinalities and Participation Constraints:

-Only one admin can track many events, so there is one to many mapping cardinalities between admin and events.

-Many players can participate in only one event, so there is many to one mapping cardinalities between player's and events.

-All players or few players can participate in only one event so here player's participation is partial.

-All or few events can be tracked, so tracks to events we have partial participation.

DDL COMMANDS :

1. Admin table:

```
SQL> create table admin(
  2  u_id number(5) primary key,
  3  fname varchar2(20),
  4  lname varchar2(20));

Table created.

SQL> desc admin;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 U_ID                                      NOT NULL NUMBER(5)
 FNAME                                              VARCHAR2(20)
 LNAME                                              VARCHAR2(20)

SQL>
```

2. Events table:

```
SQL> create table events(
  2  e_id number(5) primary key,
  3  location varchar2(20),
  4  e_date DATE);

Table created.

SQL> desc events;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 E_ID                                      NOT NULL NUMBER(5)
 LOCATION                                           VARCHAR2(20)
 E_DATE                                             DATE

SQL>
```

3. Tracks table:

```
SQL> create table tracks(
  2  u_id number(5),
  3  e_id number(5),
  4  time varchar2(20));

Table created.

SQL> alter table tracks add foreign key(u_id) references admin;

Table altered.

SQL> alter table tracks add foreign key(e_id) references events;

Table altered.

SQL> alter table tracks add primary key(u_id,e_id);

Table altered.

SQL> desc tracks;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 U_ID                                      NOT NULL NUMBER(5)
 E_ID                                      NOT NULL NUMBER(5)
 TIME                                               VARCHAR2(20)
```

4. Players table:

```
SQL> create table player(
  2  p_id number(5) primary key,
  3  pfname varchar2(20),
  4  plname varchar2(20),
  5  position varchar2(20),
  6  rank number(5));

Table created.

SQL> desc player;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------

 P_ID                                      NOT NULL NUMBER(5)
 PFNAME                                             VARCHAR2(20)
 PLNAME                                             VARCHAR2(20)
 POSITION                                           VARCHAR2(20)
 RANK                                               NUMBER(5)

SQL>
```

5. Participates table:

```
SQL> create table participate(
  2   e_id number(5),
  3   p_id number(5),
  4   date DATE);
date DATE)
*
```

```
SQL> alter table participate add foreign key(e_id) references events;

Table altered.

SQL> alter table participate add foreign key(p_id) references player;

Table altered.

SQL> alter table participate add primary key(e_id,p_id);

Table altered.
```

```
SQL> desc participate;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 E_ID                                      NOT NULL NUMBER(5)
 P_ID                                      NOT NULL NUMBER(5)
 P_DATE                                             DATE

SQL>
```

DML COMMANDS:

1. Admin table:

```
SQL> insert into admin values(101,'Bihar','11-FEB-2020');

1 row created.
```

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```
SQL> insert into admin values(&u_id,'&fname','&lname');
Enter value for u_id: 2
Enter value for fname: sri
Enter value for lname: raj
old    1: insert into admin values(&u_id,'&fname','&lname')
new    1: insert into admin values(2,'sri','raj')

1 row created.

SQL> /
Enter value for u_id: 3
Enter value for fname: sana
Enter value for lname: fatima
old    1: insert into admin values(&u_id,'&fname','&lname')
new    1: insert into admin values(3,'sana ','fatima')

1 row created.

SQL> /
Enter value for u_id: 4
Enter value for fname: abdul
Enter value for lname: wahed
old    1: insert into admin values(&u_id,'&fname','&lname')
new    1: insert into admin values(4,'abdul ','wahed')

1 row created.

SQL> /
Enter value for u_id: 5
Enter value for fname: abdul
Enter value for lname: majed
old    1: insert into admin values(&u_id,'&fname','&lname')
new    1: insert into admin values(5,'abdul','majed')

1 row created.

SQL> select * from admin;

      U_ID FNAME                   LNAME
---------- --------------------    --------------------
         1 Varsha                  Kumari
         2 sri                     raj
         3 sana                    fatima
         4 abdul                   wahed
         5 abdul                   majed

SQL>
```

2. Events table:

```
SQL> insert into events values(101,'Bihar','11-FEB-2020');

1 row created.
```

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```
SQL> insert into events values(&e_id,'&location','&e_date');
Enter value for e_id: 102
Enter value for location: lucknow
Enter value for e_date: 20-FEB-2020
old   1: insert into events values(&e_id,'&location','&e_date')
new   1: insert into events values(102,'lucknow','20-FEB-2020')

1 row created.

SQL> /
Enter value for e_id: 103
Enter value for location: Delhi
Enter value for e_date: 24-MAR-2020
old   1: insert into events values(&e_id,'&location','&e_date')
new   1: insert into events values(103,'Delhi','24-MAR-2020')

1 row created.

SQL> /
Enter value for e_id: 104
Enter value for location: Hyderabad
Enter value for e_date: 19-AUG-2020
old   1: insert into events values(&e_id,'&location','&e_date')
new   1: insert into events values(104,'Hyderabad','19-AUG-2020')

1 row created.

SQL> /
Enter value for e_id: 105
Enter value for location: Mumbai
Enter value for e_date: 13-MAY-2020
old   1: insert into events values(&e_id,'&location','&e_date')
new   1: insert into events values(105,'Mumbai','13-MAY-2020')

1 row created.

SQL> select * from events;

      E_ID LOCATION                 E_DATE
---------- -------------------- ---------
       101 Bihar                    11-FEB-20
       102 lucknow                  20-FEB-20
       103 Delhi                    24-MAR-20
       104 Hyderabad                19-AUG-20
       105 Mumbai                   13-MAY-20

SQL>
```

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3. Tracks table:

```
SQL> insert into tracks values(&u_id,&e_id,'&time');
Enter value for u_id: 1
Enter value for e_id: 101
Enter value for time: 2:00pm
old    1: insert into tracks values(&u_id,&e_id,'&time')
new    1: insert into tracks values(1,101,'2:00pm')

1 row created.

SQL> /
Enter value for u_id: 2
Enter value for e_id: 102
Enter value for time: 10:00am
old    1: insert into tracks values(&u_id,&e_id,'&time')
new    1: insert into tracks values(2,102,'10:00am')

1 row created.

SQL> /
Enter value for u_id: 3
Enter value for e_id: 103
Enter value for time: 8:30pm
old    1: insert into tracks values(&u_id,&e_id,'&time')
new    1: insert into tracks values(3,103,'8:30pm')

1 row created.

SQL> /
Enter value for u_id: 4
Enter value for e_id: 104
Enter value for time: 5:34pm
old    1: insert into tracks values(&u_id,&e_id,'&time')
new    1: insert into tracks values(4,104,'5:34pm')

1 row created.

SQL> 5
SP2-0226: Invalid line number
SQL> /
Enter value for u_id: 5
Enter value for e_id: 105
Enter value for time: 9:09am
old    1: insert into tracks values(&u_id,&e_id,'&time')
new    1: insert into tracks values(5,105,'9:09am')

1 row created.

SQL> select * from tracks;

      U_ID       E_ID TIME
---------- ---------- --------------------
         1        101 2:00pm
         2        102 10:00am
         3        103 8:30pm
         4        104 5:34pm
         5        105 9:09am
```

4. Player table:

```
SQL> insert into player values(&p_id,'&pfname','&plname','&position',&rank);
Enter value for p_id: 17
Enter value for pfname: Dhyan
Enter value for plname: Chand
Enter value for position: forwards
Enter value for rank: 1
old    1: insert into player values(&p_id,'&pfname','&plname','&position',&rank)
new    1: insert into player values(17,'Dhyan ','Chand','forwards',1)

1 row created.

SQL> /
Enter value for p_id: 28
Enter value for pfname: Dhanraj
Enter value for plname: Pillay
Enter value for position: midfields
Enter value for rank: 7
old    1: insert into player values(&p_id,'&pfname','&plname','&position',&rank)
new    1: insert into player values(28,'Dhanraj ','Pillay','midfields',7)

1 row created.
SQL> /
Enter value for p_id: 36
Enter value for pfname: Udham
Enter value for plname: Singh
Enter value for position: goalie
Enter value for rank: 15
old    1: insert into player values(&p_id,'&pfname','&plname','&position',&rank)
new    1: insert into player values(36,'Udham','Singh','goalie',15)

1 row created.

SQL> /
Enter value for p_id: 50
Enter value for pfname: Luslie
Enter value for plname: Claudis
Enter value for position: fullbacks
Enter value for rank: 5
old    1: insert into player values(&p_id,'&pfname','&plname','&position',&rank)
new    1: insert into player values(50,'Luslie','Claudis','fullbacks',5)

1 row created.

SQL> /
Enter value for p_id: 73
Enter value for pfname: Mohammmed
Enter value for plname: Shahid
Enter value for position: fullbacks
Enter value for rank: 2
old    1: insert into player values(&p_id,'&pfname','&plname','&position',&rank)
new    1: insert into player values(73,'Mohammmed ','Shahid','fullbacks',2)

1 row created.
```

```
SQL> select * from player;

      P_ID PFNAME                    PLNAME                    POSITION
---------- ------------------------  ------------------------  ------------------------
      RANK
----------
        17 Dhyan                     Chand                     forwards
         1

        28 Dhanraj                   Pillay                    midfields
         7

        36 Udham                     Singh                     goalie
        15


      P_ID PFNAME                    PLNAME                    POSITION
---------- ------------------------  ------------------------  ------------------------
      RANK
----------
        50 Luslie                    Claudis                   fullbacks
         5

        73 Mohammmed                 Shahid                    fullbacks
         2


SQL>
```

5. Participates table:

```
         103  Mumbai               13 MAR 20

SQL> insert into participate values(&e_id,&p_id,'&p_date');
Enter value for e_id: 101
Enter value for p_id: 17
Enter value for p_date: 9-FEB-20
old   1: insert into participate values(&e_id,&p_id,'&p_date')
new   1: insert into participate values(101,17,'9-FEB-20')

1 row created.

SQL> /
Enter value for e_id: 102
Enter value for p_id: 28
Enter value for p_date: 16-FEB-20
old   1: insert into participate values(&e_id,&p_id,'&p_date')
new   1: insert into participate values(102,28,'16-FEB-20')

1 row created.

SQL> /
Enter value for e_id: 103
Enter value for p_id: 36
Enter value for p_date: 21-MAR-20
old   1: insert into participate values(&e_id,&p_id,'&p_date')
new   1: insert into participate values(103,36,'21-MAR-20')

1 row created.
```

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```
SQL> /
Enter value for e_id: 104
Enter value for p_id: 50
Enter value for p_date: 18-AUG-20
old   1: insert into participate values(&e_id,&p_id,'&p_date')
new   1: insert into participate values(104,50,'18-AUG-20')

1 row created.

SQL> /
Enter value for e_id: 105
Enter value for p_id: 73
Enter value for p_date: 10-MAY-20
old   1: insert into participate values(&e_id,&p_id,'&p_date')
new   1: insert into participate values(105,73,'10-MAY-20')

1 row created.

SQL> select * from participate;

     E_ID      P_ID P_DATE
---------- ---------- ---------
      101        17 09-FEB-20
      102        28 16-FEB-20
      103        36 21-MAR-20
      104        50 18-AUG-20
      105        73 10-MAY-20
```

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