DBMS
Assignment-2

Event Registration Management System

Students:

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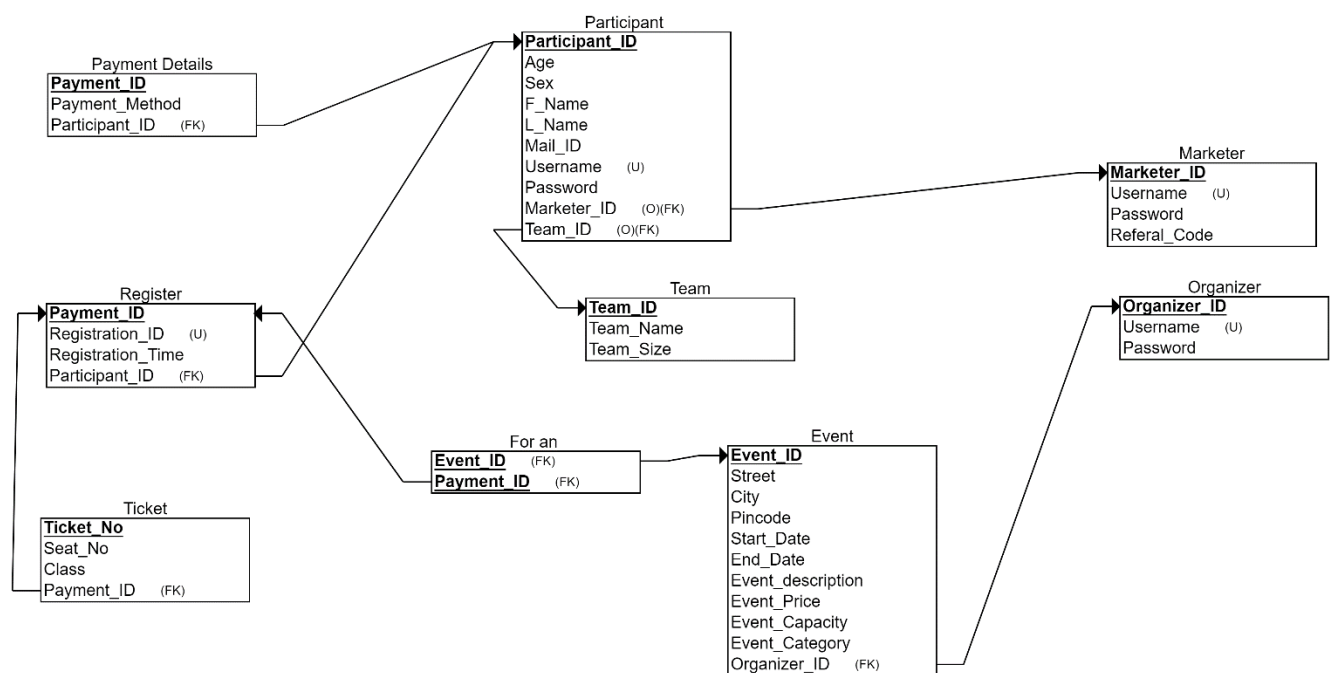
Course:

Database Management System – UE19CS301

Reasons we chose PostgreSQL

We chose SQL over our alternate consideration MongoDB since:

- Our project model has simple data and can be stored in tabular format.

- We have a rigid schema which suits the use of relational database

- Our enforcement of foreign key constraints is only possible in PostgreSQL

- Schemas have an identified relationship having tables that identify those schemas and having foreign keys will be useful.

So for our RDBMS requirements we have chosen PostgreSQL to implement our model.

Relational Diagram

Create statements .sql file

Following is the implementation of the given Relational Schema with the help of create statements

```sql
drop database event_management_sys;
create database event_management_sys;

\c event_management_sys;

CREATE TABLE Marketer (
    Marketer_ID varchar(6) NOT NULL,
    Username varchar(10) NOT NULL,
    Password_ varchar(10) NOT NULL,
    Referal_Code varchar(6),
    PRIMARY KEY (Marketer_ID),
    UNIQUE (Username)
);

CREATE TABLE Organizer (
    Organizer_ID varchar(6) NOT NULL,
    Username varchar(10) NOT NULL,
    Password_ varchar(10) NOT NULL,
    PRIMARY KEY (Organizer_ID),
    UNIQUE (Username)
);

CREATE TABLE Event (
    Street varchar(30) NOT NULL,
    City varchar(20) NOT NULL,
    Pincode int NOT NULL,
    Event_ID varchar(6) NOT NULL,
    Start_Date date,
    End_Date date,
    Event_description varchar(100),
    Event_Price int,
    Event_Capacity int NOT NULL,
    Event_Category varchar(20),
    Organizer_ID varchar(6) NOT NULL,
    PRIMARY KEY (Event_ID),
    FOREIGN KEY (Organizer_ID) REFERENCES Organizer(Organizer_ID)
);
```

```sql
CREATE TABLE Team (
    Team_ID varchar(6) NOT NULL,
    Team_Name varchar(20) NOT NULL,
    Team_Size INT NOT NULL,
    PRIMARY KEY (Team_ID)
);

CREATE TABLE Participant_ (
    Participant_ID varchar(6) NOT NULL,
    Age int NOT NULL,
    Sex varchar(1) NOT NULL,
    F_Name varchar(10) NOT NULL,
    L_Name varchar(10),
    Mail_ID varchar(40) NOT NULL,
    Username varchar(25) NOT NULL,
    Password_ varchar(10) NOT NULL,
    Marketer_ID varchar(6),
    Team_ID varchar(6),
    PRIMARY KEY (Participant_ID),
    FOREIGN KEY (Marketer_ID) REFERENCES Marketer(Marketer_ID),
    FOREIGN KEY (Team_ID) REFERENCES Team(Team_ID),
    UNIQUE (Username)
);

CREATE TABLE Register (
    Payment_ID varchar(6) NOT NULL,
    Participant_ID varchar(6) NOT NULL,
    Registration_ID varchar(6) NOT NULL,
    Registration_Time varchar(20) NOT NULL,
    PRIMARY KEY (Payment_ID),
    FOREIGN KEY (Participant_ID) REFERENCES Participant_(Participant_ID),
    UNIQUE (Registration_ID)
);
```

```sql
CREATE TABLE Payment_Details (
    Payment_ID varchar(6) NOT NULL,
    Payment_Method varchar(4) NOT NULL,
    Participant_ID varchar(6) NOT NULL,
    PRIMARY KEY (Payment_ID),
    FOREIGN KEY (Participant_ID) REFERENCES Participant_(Participant_ID)
);

CREATE TABLE Ticket (
    Ticket_No varchar(6) NOT NULL,
    Seat_No varchar(6),
    class_tier varchar(1),
    Payment_ID varchar(6) NOT NULL,
    PRIMARY KEY (Ticket_No),
    FOREIGN KEY (Payment_ID) REFERENCES Register(Payment_ID)
);

CREATE TABLE For_an_ (
    Event_ID varchar(6) NOT NULL,
    Payment_ID varchar(6) NOT NULL,
    PRIMARY KEY (Event_ID, Payment_ID),
    FOREIGN KEY (Event_ID) REFERENCES Event(Event_ID),
    FOREIGN KEY (Payment_ID) REFERENCES Register(Payment_ID)
);
```

Insert statements .sql file

The following is the insert statements which is used to populate our database for further application.

```
\c event_management_sys;

INSERT into Marketer values ('MAR001','John','john123','REF001');
INSERT into Marketer values ('MAR002','Joe','joe123','REF002');
INSERT into Marketer values ('MAR003','Michael','Michael123','REF003');

INSERT into Organizer values ('ORG001','Mike','Mike123');
INSERT into Organizer values ('ORG002','Jane','Jane123');
INSERT into Organizer values ('ORG003','Jesse','Jesse123');


INSERT into Event values ('MG road','Bangalore',560003,'EID001','02/12/2021','03/12/2021','Most Interesting Person in the Room-Kenny Sebastian',450,70,'Comedy','ORG001');
INSERT into Event values ('Gulab Jamun Road','Kolkata',560098,'EID002','09/11/2021','10/11/2021','Inside - Bo Burnham',500,90,'Musical/Comedy','ORG001');
INSERT into Event values ('Bhandra West','Mumbai',560007,'EID003','11/12/2021','13/12/2021','Smooth Play',650,90,'Table Tennis','ORG001');
INSERT into Event values ('Gandhinagar','Delhi',560069,'EID004','15/11/2021','19/11/2021','Hamilton',600,100,'Open Theater Musical','ORG002');
INSERT into Event values ('100 ft Ring Road','Bangalore',560010,'EID005','16/1/2022','16/1/2021','Benny Dayal Live',250,500,'Live Concert','ORG002');
INSERT into Event values ('150 ft Ring Road','Bangalore',560047,'EID006','20/2/2022','22/2/2021','Game of Hops',50,30,'Hopscotch','ORG003');

INSERT into Team values ('TEM001','The Insiders',2);
INSERT into Team values ('TEM002','Loner',1);
INSERT into Team values ('TEM003','FC Barcelona',1);

INSERT into Participant_ values ('PRT001',23,'M','Rishab','Kumar','rishabkumar@kjsdv.com','rishab29','rishab123','MAR001',NULL);
INSERT into Participant_ values ('PRT002',25,'F','Deepa','Girish','deepagirish@avdva.com','deepa86','deepa123','MAR002',NULL);
INSERT into Participant_ values ('PRT003',33,'F','Nidhi','Burman','nidhiburman@ersfg.com','nidhirokz34','nidhi123','MAR003','TEM002');
INSERT into Participant_ values ('PRT004',22,'M','Kaushal','Reddy','kaushalreddy@ersfg.com','kaushalbling','kaushal123','MAR002','TEM001');
INSERT into Participant_ values ('PRT005',21,'M','Janardhan','Chethri','janardhancheth@ekffg.com','janardhanbling2','jannu123','MAR002','TEM001');
INSERT into Participant_ values ('PRT006',29,'F','Pooja','Pattekar','poojapattekar@erchg.com','poojamallu','pooja123','MAR003','TEM003');
```

```sql
INSERT into Register values ('PYM001','PRT001','REG001','8:56PM-01/12/21');
INSERT into Register values ('PYM002','PRT002','REG002','7:46PM-08/11/21');
INSERT into Register values ('PYM003','PRT003','REG003','4:53PM-10/12/21');
INSERT into Register values ('PYM004','PRT004','REG004','9:36PM-14/11/21');
INSERT into Register values ('PYM005','PRT005','REG005','6:27PM-16/1/22');
INSERT into Register values ('PYM006','PRT006','REG006','3:54PM-19/2/22');

INSERT into Payment_Details values ('PYM001','Card','PRT001');
INSERT into Payment_Details values ('PYM002','UPI','PRT002');
INSERT into Payment_Details values ('PYM003','Cash','PRT003');
INSERT into Payment_Details values ('PYM004','UPI','PRT004');
INSERT into Payment_Details values ('PYM005','Card','PRT005');
INSERT into Payment_Details values ('PYM006','Cash','PRT006');

INSERT into Ticket values ('TIC001','SET001','S','PYM001');
INSERT into Ticket values ('TIC002','SET002','A','PYM002');
INSERT into Ticket values ('TIC003','SET003','B','PYM003');
INSERT into Ticket values ('TIC004','SET004','B','PYM004');
INSERT into Ticket values ('TIC005','SET005','S','PYM005');
INSERT into Ticket values ('TIC006','SET006','S','PYM006');

INSERT into For_an_ values ('EID001','PYM001');
INSERT into For_an_ values ('EID002','PYM002');
INSERT into For_an_ values ('EID003','PYM003');
INSERT into For_an_ values ('EID002','PYM004');
INSERT into For_an_ values ('EID001','PYM005');
INSERT into For_an_ values ('EID003','PYM006');
```

Contributions

- K K Tarun Kumar(PES1UG19CS222) – Relational model diagram, Implementation, Insert statements. (Hours spent -3)

- Koushik Varma Mandapati (PES1UG19CS230) – Population of data, Designing relation model, Create statements, Normalization. (Hours spent -3)

- Kosaraju Bhargava Krishna (PES1UG19CS225)- Mapping, Implementation, Create statements, Report. (Hours spent -3)