-- Created a user table with user id , name , gender and email

CREATE TABLE user(

uid INT NOT NULL auto\_increment,

name1 VARCHAR(255) NOT NULL,

gender VARCHAR(255),

email VARCHAR(255) NOT NULL,

PRIMARY KEY (uid)

);

-- Altered the gender column of user table from string to enum

ALTER TABLE user

MODIFY gender ENUM('Male','Female') NOT NULL;

-- Created a table for events with event id,user id, Event name, and its time

CREATE TABLE events(

id INT NOT NULL AUTO\_INCREMENT,

uid INT NOT NULL,

name2 VARCHAR(255) NOT NULL,

occurence ENUM('Yearly','Onetime'),

startDate DATE NOT NULL,

endDate DATE,

PRIMARY KEY (id),

FOREIGN KEY (uid) REFERENCES user(uid)

);

-- Inserted values in user table

INSERT INTO user (name1,Gender,Email)

VALUES ('Saikat Das','Male','saikat@gmail.com'),

('Arpan Saha','Male','arpan@gmail.com'),

('Sabuj Das','Male','sabuj@gmail.com'),

('Iti Das','Female','iti@gmail.com'),

('Akshita Mondal','Female','akshita@gmail.com');

-- More users

INSERT INTO user (name1,Gender,Email)

VALUES ('Asit Das','Male','asit@gmail.com'),

('Arpita Ghosh','Female','arpita@gmail.com'),

('Sandi Dutta','Male','sandi@gmail.com');

-- Visualising the user table after modification

SELECT uid AS 'User ID',name1 AS 'Name',gender AS 'Gender',email AS 'Email ID' FROM user;

-- Changing email to unique in user as Email id per user should be unique

ALTER TABLE user

MODIFY email VARCHAR(255) NOT NULL UNIQUE;

-- Inserting values into events table

INSERT INTO events (uid,name2,occurence,startDate,endDate)

VALUES (1,'Event1','Onetime','22/11/12','22/12/12'),

(3,'Event2','Onetime',curdate(),NULL),

(4,'Event9','Onetime',curdate(),'22/01/25'),

(3,'Event21','Onetime',curdate(),NULL),

(2,'Event10','Onetime','22/01/24','22/01/25'),

(9,'Event11','Onetime',curdate(),'22/01/22'),

(8,'Event7','Yearly','21/12/21','21/12/30'),

(3,'Event12','Onetime','21/12/12',NULL),

(1,'Event13','Yearly','21/12/14',NULL),

(4,'Event20','Onetime',curdate(),'22/01/25'),

(1,'Event22','Yearly','21/12/21','21/12/30'),

(1,'Event23','Onetime',curdate(),NULL),

(2,'Event14','Onetime','21/12/12',NULL),

(1,'Event24','Onetime',curdate(),NULL),

(3,'Event8','Yearly','21/12/20','21/12/25'),

(8,'Event3','Onetime',curdate(),NULL),

(1,'Event19','Onetime',curdate(),NULL),

(5,'Event15','Yearly','21/12/21','21/12/30'),

(1,'Event10','Onetime','22/01/24','22/01/25'),

(3,'Event8','Yearly','21/12/20','21/12/25'),

(5,'Event25','Onetime',curdate(),'22/01/25'),

(2,'Event26','Onetime',curdate(),NULL),

(7,'Event27','Yearly','21/12/21','21/12/30'),

(1,'Event16','Yearly',curdate(),NULL),

(9,'Event28','Onetime',curdate(),'22/01/25'),

(1,'Event29','Onetime',curdate(),NULL),

(7,'Event8','Yearly','21/12/20','21/12/25'),

(9,'Event30','Onetime',curdate(),NULL),

(1,'Event17','Onetime',curdate(),'22/01/01'),

(8,'Event18','Yearly','21/12/20',NULL);

-- Visualising the events table

SELECT

id AS 'Event ID',

uid AS 'User ID',

name2 AS 'Event Name',

occurence AS 'Occurence',

startDate AS 'Start Date',

endDate AS 'End Date'

from events;

-- Every ongoing event if End Date is NUll it is not considered

SELECT

id AS 'Event ID',

uid AS 'User ID',

name2 AS 'Event Name',

occurence AS 'Occurence',

startDate AS 'Start Date',

endDate AS 'End Date'

from events

where startDate<=curdate() AND endDate>=curdate();

-- Getting all users from a list of (1,2,4,7)

SELECT uid AS 'User ID',name1 AS 'Name',gender AS 'Gender',email AS 'Email ID' FROM user

where uid in (1,2,4,7);

-- Getting all events for user 1

SELECT

id AS 'Event ID',

uid AS 'User ID',

name2 AS 'Event Name',

occurence AS 'Occurence',

startDate AS 'Start Date',

endDate AS 'End Date'

from events

where uid=1;

-- Getting all events for next 7 days

SELECT

id AS 'Event ID',

uid AS 'User ID',

name2 AS 'Event Name',

occurence AS 'Occurence',

startDate AS 'Start Date',

endDate AS 'End Date'

from events

WHERE startDate BETWEEN curdate() AND DATE\_ADD(curdate(), INTERVAL 7 DAY);