

University of British Columbia
Department of Computer Science

CPSC 304 2019 W2

Group Project - Implementation of a Relational Database

Project Title:	EventFinder
Project Milestone:	Milestone 4

#	Student Name	Student Number	Email Address
1	Hin Bong Pan	30910160	boscpa@gmail.com
2	Indervir Singh	96138152	khairamay1991@gmail.com
3	Andrew Chang	25912163	ac.weichuan@gmail.com

By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above.

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

DESCRIPTION

This is a web application that concentrates on event planning. It allows users to create an event given its time, location etc, record sponsors and staff information for an event, update an event, delete an event, and join events that other users create. New users can join the application by creating their own accounts.

DIFFERENCES IN SCHEMA

1. Location table has been deleted
 - a. Name is the only other column in the Location table beside its primary key and
 - b. Including a name for each location is not practical and
 - c. Event table already stores location information
2. Organizer table has been deleted and its columns are integrated in the Event table
 - a. OrganizerContactInfo is the only other column in the Organizer table beside its primary key and
 - b. Every event only has one organizer and one organizer contact info
3. DOB table has been deleted
 - a. Age is the only other column in the DOB table beside its primary key birthdate and
 - b. Age can be calculated from a birthdate when needed

QUERIES USED

1. Query for filtering and displaying events

Note: the conditions are only examples since they are provided by the user from the frontend.

```
SELECT e.*,
       CONCAT(u.FirstName, " ", u.LastName) AS OrganizerName,
       (SELECT GROUP_CONCAT(eht.EventType)
        FROM EventHasType eht
        WHERE eht.EventID = e.EventID) AS Types,
       (SELECT GROUP_CONCAT(DISTINCT CONCAT(u1.FirstName, " ", u1.LastName))
        FROM Participate p JOIN User u1 ON p.UserID = u1.UserID
        WHERE p.EventID = e.EventID) AS Attendees
FROM Event e JOIN User u ON e.OrganizerUserID = u.UserID
WHERE e.LocationAddress LIKE "%Granville%" AND
      e.Title LIKE "%C%" AND
      CONCAT(u.FirstName, " ", u.LastName) LIKE "%Tony%" AND
      e.EventID IN
        (SELECT e1.EventID
         FROM Event e1
         WHERE NOT EXISTS
           (SELECT * FROM EventType et
```

```
WHERE et.TypeName IN ("sports","study") AND
NOT EXISTS
(SELECT * FROM EventHasType eht
WHERE eht.EventID = e1.EventID AND
eht.EventType = et.TypeName));
```

Output:

Success
1 rows

Explore SQL Data Chart Export 8:47 PM
0.074 seconds

EventID	Title	StartDate	EndDate	Description	LocationAddress	OrganizerUserID	OrganizerContactInfo	OrganizerName	Types	Attendees
2	Circus	2020-04-23 00:00:00	2020-05-03 00:00:00	Cirque de Soleil	Granville Street	53	53@eventfinder.com	Tony Stark	sports,study	Black Widow,John Smith,Peter

2. Query for registering a new user and a new credit card for payment:

```
INSERT INTO User VALUES(51, 'John', 'Smith', '1991-05-23', 'Male');
```

```
INSERT INTO CreditCard VALUES(1234567891233,'2020/06', 'Clarke Kent', '123');
```

Output:

Success

Explore SQL Data Chart Export 8:54 PM
0.045 seconds

Rows affected: 1

```
mysql> SELECT * FROM User WHERE UserID = 51;
+-----+-----+-----+-----+-----+
| UserID | FirstName | LastName | DateOfBirth | Gender |
+-----+-----+-----+-----+-----+
|      51 | John      | Smith    | 1991-05-23  | Male   |
+-----+-----+-----+-----+-----+
1 row in set (0.01 sec)

mysql> SELECT * FROM CreditCard WHERE CardNumber = 1234567891233;
+-----+-----+-----+-----+
| CardNumber | ExpiryDate | HolderName | CVC |
+-----+-----+-----+-----+
| 1234567891233 | 2020/06    | Clarke Kent | 123 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

3. Query for checking if a user exists (returns 0 if false, 1 if true):

```
SELECT COUNT(*) AS doesUserExist FROM User WHERE UserID = 22;
```

Output:

```
mysql> SELECT COUNT(*) AS doesUserExist FROM User WHERE UserID = 22;
+-----+
| doesUserExist |
+-----+
|              0 |
+-----+
1 row in set (0.00 sec)
```

After clicking “SIGN IN”:

4. Query for updating attendee list for an event:

Example: INSERT INTO Participate VALUES(51, 3, 'Registered');

Output:

After pressing the add button in the top right:

```
mysql> SELECT * FROM Participate WHERE UserID = 51 AND EventID = 2;
+-----+-----+-----+
| UserID | EventID | Status      |
+-----+-----+-----+
|      51 |        2 | Registered  |
+-----+-----+-----+
1 row in set (0.00 sec)
```

5. Query for finding gender ratio of some event:

```
SELECT COUNT(*) AS Count, u.gender AS Gender \
FROM Participate p JOIN User u ON p.UserID = u.UserID \
WHERE p.EventID = ? \
GROUP BY u.gender
```

Output:

Example after clicking the person icon on the right:

Types

Start Date and Time *
yyyy-mm-dd --:-- --

End Date and Time *
yyyy-mm-dd --:-- --

SEARCH

localhost3000 says
Male: 4, Female: 1

OK

Results

Circus

Change Title

SUBMIT

Start Time: 2020-04-23T07:00:00.000Z
End Time: 2020-05-03T07:00:00.000Z
Description: Cirque de Solil
Location: Granville Street
Organizer: Tony Stark
Attendees: Black Widow,John Smith,Peter Parker,Steve Rogers,Tony Stark
Types: sports,study

6. Query for deleting a given event:
DELETE FROM Event WHERE EventID = ?

OUTPUT:
Example:

```
mysql> select * from event;
```

EventID	Title	StartDate	EndDate	Description	LocationAddress
OrganizerUserID	OrganizerContactInfo				
1	Comedy Club	2020-04-15 00:00:00	2020-04-17 00:00:00	Full of laughs	Beatty Street, Vancouver
2	Circus	2020-04-23 00:00:00	2020-05-03 00:00:00	Cirque de Solil	Granville Stree
3	Play	2020-05-24 00:00:00	2020-06-07 00:00:00	Theatrical Play	Mainland Street
4	Drinking Challenge	2020-06-07 00:00:00	2020-06-09 00:00:00	Beer Drinking Competition	Gastown
5	UFC Fight	2020-05-03 00:00:00	2020-05-03 00:00:00	McGreggor Vs Khalid	Gastown

5 rows in set (0.00 sec)

Drinking Challenge

Change Title

SUBMIT

Start Time: 2020-06-07T07:00:00.000Z
End Time: 2020-06-09T07:00:00.000Z
Description: Beer Drinking Competition
Location: Gastown
Organizer: Black Widow
Attendees: Peter Parker
Types:

After clicking the garbage icon on the right:

localhost:3000

FIND EVENTS CREATE AN EVENT

localhost:3000 says
Event deleted successfully.

OK

Filters

Title Location Organizer Name

Types

Start Date and Time * End Date and Time *

yyyy-mm-dd --:-- -- yyyy-mm-dd --:-- --

SEARCH

Results

```
mysql> select * from event;
```

EventID	Title	StartDate	EndDate	Description	LocationAddress	OrganizerUserID	OrganizerContactInfo
1	Comedy Club	2020-04-15 00:00:00	2020-04-17 00:00:00	Full of laughs	Beatty Street, Vancouver	51	51@eventfinder.com
2	Circus	2020-04-23 00:00:00	2020-05-03 00:00:00	Cirque de Solil	Granville Street	53	53@eventfinder.com
3	Play	2020-05-24 00:00:00	2020-06-07 00:00:00	Theatrical Play	Mainland Street	52	52@eventfinder.com
5	UFC Fight	2020-05-03 00:00:00	2020-05-03 00:00:00	McGreggor Vs Khalid	Gastown	55	55@eventfinder.com

4 rows in set (0.00 sec)

7. Query for changing the title of an event:

UPDATE Event SET Title = 'new name' where eventID = 2;

Output:

Results

Circus

Change Title

new name!

SUBMIT

+

✖

👤

Start Time: 2020-04-23T07:00:00.000Z
End Time: 2020-05-03T07:00:00.000Z
Description: Cirque de Solil
Location: Granville Street
Organizer: Tony Stark
Attendees: Black Widow, John Smith, Peter Parker, Steve Rogers, Tony Stark
Types: sports, study

Upon pressing SUBMIT:

localhost:3000

FIND EVENTS CREATE AN EVENT

localhost:3000 says
Event title changed successfully!

OK

Filters

Title Location Organizer Name

Types

Start Date and Time * End Date and Time *

yyyy-mm-dd --:-- -- yyyy-mm-dd --:-- --

SEARCH

Results

Circus

Change Title

new name!

SUBMIT

+

✖

👤

Start Time: 2020-04-23T07:00:00.000Z
End Time: 2020-05-03T07:00:00.000Z
Description: Cirque de Solil
Location: Granville Street
Organizer: Tony Stark
Attendees: Black Widow, John Smith, Peter Parker, Steve Rogers, Tony Stark
Types: sports, study

Upon refreshing the page, we have:

Results

new name!

Change Title

SUBMIT

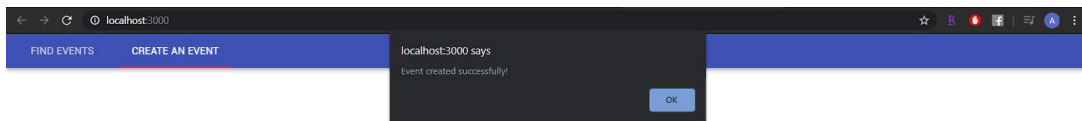
Start Time: 2020-04-23T07:00:00.000Z
End Time: 2020-05-03T07:00:00.000Z
Description: Cirque de Solil
Location: Granville Street
Organizer: Tony Stark
Attendees: Black Widow, John Smith, Peter Parker, Steve Rogers, Tony Stark
Types: sports, study

8. Queries for creating new events:

```
INSERT INTO Event VALUES(5, 'UFC Fight', '2020-05-03', '2020-05-03', 'McGreggor Vs  
Khalid', 'Gastown', 55, "55@eventfinder.com" );  
INSERT INTO EventType VALUES('dining', 21);
```

Output:

When user creates a new event:



```
mysql> select * from event;  
+-----+-----+-----+-----+-----+-----+-----+  
| EventID | Title      | StartDate      | EndDate      | Description      | LocationAddress | | 0  
+-----+-----+-----+-----+-----+-----+-----+  
| 1 | Comedy Club | 2020-04-15 00:00:00 | 2020-04-17 00:00:00 | Full of laughs | Beatty Street, Vancouver | |  
| NULL | 51@eventfinder.com | | | | | |  
| 2 | new name! | 2020-04-23 00:00:00 | 2020-05-03 00:00:00 | Cirque de Solil | Granville Street | |  
| 53 | 53@eventfinder.com | | | | | |  
| 3 | Play | 2020-05-24 00:00:00 | 2020-06-07 00:00:00 | Theatrical Play | Mainland Street | |  
| 52 | 52@eventfinder.com | | | | | |  
| 5 | UFC Fight | 2020-05-03 00:00:00 | 2020-05-03 00:00:00 | McGregor Vs Khalid | Gastown | |  
| 55 | 55@eventfinder.com | | | | | |  
| 8 | test | 2020-01-02 01:00:00 | 2020-01-01 01:00:00 | asdfasdf | testlocation | |  
| 53 | 53@eventfinder.com | | | | | |  
+-----+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.00 sec)
```

```
mysql> select * from eventtype;  
+-----+-----+  
| TypeName      | AgeLimit |  
+-----+-----+  
| Auto Show     | 18 |  
| charity       | 21 |  
| dining        | 21 |  
| Family Event  | 65 |  
| group event   | 14 |  
| National Day Fireworks | 100 |  
| sports        | 18 |  
| study         | 0 |  
+-----+-----+  
8 rows in set (0.00 sec)
```