

CPSC 304 Project Cover Page

Milestone #: 4

Date: 04/05/2024

Group Number: 67

| Name | Student Number | CS Alias (Userid) | Preferred E-mail Address |
|------------------------|----------------|-------------------|---------------------------|
| Zongxi Li | 40628778 | zli110 | zongxiubc@gmail.com |
| Shiyu Deng | 29343480 | b1l9z | simondeng.sy@gmail.comn |
| Marie Samantha Fidelia | 64717309 | g0j5n | mariesamantha.f@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 the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

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

Project Collaboration Web App

Brief Summary

Our project is a project collaboration and management platform with features like task assignment, progress tracking, and communication tools. It utilizes a database to efficiently manage user authentication, project details, and real-time collaboration, to enhance productivity and coordination within teams. The database will provide functionality for storing, retrieving, and managing data related to project collaboration and management.

Our Accomplishment

In this project, we have successfully integrated SQL queries into our frontend GUI application to create, update, and display tables according to our functionality. We are also able to update each table with cascading changes, and guard empty values in the GUI and SQL queries. Lastly, we are able to implement things we learned in class such as aggregation with group-by and other operations.

Final Schema

We made a minor change in our final schema, where we rename our table from 'User' to 'appUser' since the general term of 'User' is restricted and cannot be made as a table name. In addition, we rename our 'Date' attribute to 'dateGenerated' due to the naming convention restriction. We have also decided to remove the 'SubTask' attribute in our project. MeetupEvent will no longer need a PermissionID since this is unnecessary towards the general logic purpose.

- Notification(NotificationID: Char(50), Text: Char(255), dateGenerated: TimeStamp)
 - CK: NotificationID
 - dateGenerated: not null

```
SQL> SELECT * FROM NOTIFICATION;

NOTIFICATIONID
-----
TEXT
-----
DATEGENERATED
-----
N1
Notification text 1

20-MAR-24 10.00.00.000000 AM

NOTIFICATIONID
-----
TEXT
-----
DATEGENERATED
-----
N2
Notification text 2

21-MAR-24 09.30.00.000000 AM

NOTIFICATIONID
-----
TEXT
-----
DATEGENERATED
-----
N3
Notification text 3

22-MAR-24 02.45.00.000000 PM
```

- appUser(UserID: Char(50), Email: Char(50))
 - CK: UserID
 - Email: not null and unique

```
SQL> SELECT * FROM appUser;

USERID
-----
EMAIL
-----
U1
user1@example.com

U2
user2@example.com

U3
user3@example.com

USERID
-----
EMAIL
-----
U4
user4@example.com

U5
user5@example.com
```

- appUser1(**Email**: Char(50), Password: Char(50))
 - CK: Email
 - Password: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM appUser1;
```

```
EMAIL
```

```
-----  
PASSWORD
```

```
-----  
user1@example.com  
|Rs22G22
```

```
user2@example.com  
3>>L9oL3
```

```
user3@example.com  
0P7g=7L|
```

```
EMAIL
```

```
-----  
PASSWORD
```

```
-----  
user4@example.com  
xD9531"<
```

```
user5@example.com  
Cs949(6i
```

- appUser2(**Email**: Char(50), firstName: Char(50))
 - CK: Email
 - firstName: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM appUser2;
```

```
EMAIL
```

```
-----  
FIRSTNAME
```

```
-----  
user1@example.com  
Jeff
```

```
user2@example.com  
Jessica
```

```
user3@example.com  
Caroline
```

```
EMAIL
```

```
-----  
FIRSTNAME
```

```
-----  
user4@example.com  
Michael
```

```
user5@example.com  
Rachel
```

- appUser3(**Email**: Char(50), lastName: Char(50))
 - CK: Email
 - lastName: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM appUser3;
```

```
EMAIL
```

```
-----  
LASTNAME
```

```
-----  
user1@example.com  
White
```

```
user2@example.com  
Lin
```

```
user3@example.com  
Henderson
```

```
EMAIL
```

```
-----  
LASTNAME
```

```
-----  
user4@example.com  
Tanner
```

```
user5@example.com  
Farley
```

- Project Manager(UserID: Char(50), PermissionID: Char(50))
 - CK: UserID
 - PermissionID: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM ProjectManager;
```

```
USERID
```

```
-----  
PERMISSIONID
```

```
-----  
U1  
Permission1
```

```
U2  
Permission2
```

```
U3  
Permission3
```

- Member(UserID: Char(50), Role: Char(50))
 - CK: UserID
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Member;
```

```
USERID
```

```
-----  
ROLE
```

```
-----  
U4  
Role4
```

```
U5  
Role5
```

- Project(ProjectID: Char(50), ProjectName: Char(50), Status: Char(25))
 - CK: ProjectID
 - ProjectName: not null and unique

```
SQL> SELECT * FROM Project;

PROJECTID
-----
PROJECTNAME
-----
P1
Project 1
T
P2
Project 2
F
P3
Project 3
T
PROJECTID
-----
PROJECTNAME
-----
P4
Project 4
F
P5
Project 5
T
```

- Project1(**ProjectName**: Char(50), Description: Char(255))
 - CK: ProjectName
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Project1;

PROJECTNAME
-----
DESCRIPTION
-----
Project 1
Desc1

Project 2
Desc2

PROJECTNAME
-----
DESCRIPTION
-----

Project 3
Desc3
```

- Project2(**ProjectName**: Char(50), Time: TimeStamp)
 - CK: ProjectName
 - Time: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Project2;

PROJECTNAME
-----
TIME
-----
Project 1
20-MAR-24 10.00.00.000000 AM
Project 2
20-FEB-24 08.30.00.000000 AM
Project 3
02-DEC-24 12.00.00.000000 PM
PROJECTNAME
-----
TIME
-----
Project 4
20-MAR-24 10.00.00.000000 AM
Project 5
31-JAN-24 11.59.59.000000 AM
```

- Collaboration Request(**RequestID**: Char(50), **UserID**: Char(50), **ProjectID**: Char(50), Status: Boolean)
 - CK: RequestID
 - UserID: not null
 - ProjectID: not null

- ON DELETE CASCADE

```
SQL> SELECT * FROM CollaborationRequest;

REQUESTID
-----
USERID
-----
PROJECTID          S
-----
CR1
U1
P1                T

CR2
U2
P2                F

REQUESTID
-----
USERID
-----
PROJECTID          S
-----
CR3
U3
P3                T

CR4
U4
```

- Task(TaskID: Char(50), TaskName: Char(50), **ProjectID**: Char(50), DueDate: TimeStamp, Status: Boolean, Description: Char(255), CreateTime: TimeStamp)
 - CK: TaskID
 - TaskName: not null
 - ProjectID: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Task;

TASKID
-----
TASKNAME
-----
PROJECTID          S
-----
DUEDATE
-----
DESCRIPTION
-----
CREATETIME
-----
T1

TASKID
-----
TASKNAME
-----
PROJECTID          S
-----
DUEDATE
-----
DESCRIPTION
-----
CREATETIME
-----
Task 1

TASKID
-----
TASKNAME
-----
PROJECTID          S
-----
DUEDATE
-----
DESCRIPTION
-----
CREATETIME
-----
P1
```

```
TASKID
-----
TASKNAME
-----
PROJECTID          S
-----
DUEDATE
-----
DESCRIPTION
-----
CREATETIME
-----
20-Mar-24 10:00:00.000000 AM      T

TASKID
-----
TASKNAME
-----
PROJECTID          S
-----
DUEDATE
-----
DESCRIPTION
-----
CREATETIME
-----
Task Description 1
```

- MeetupEvent(MeetupEventID: Char(50), **ProjectID**: Char(50), Location: Char(50), Time: TimeStamp, **UserID**: Char(50))
 - CK: MeetingEventID
 - ProjectID: not null
 - UserID: not null

- ON DELETE CASCADE

```
SQL> SELECT * FROM MeetupEvent;

MEETUPEVENTID
-----
PROJECTID
-----
LOCATION
-----
TIME
-----
USERID
-----
MEETUPRICHMOND1
P1
Richmond

MEETUPEVENTID
-----
PROJECTID
-----
LOCATION
-----
TIME
-----
USERID
-----
20-MAR-24 10:00:00.000000 AM
U1
```

- Poll(PollID: Char(50), **ProjectID**: Char(50), Topic: Char(255), Option A: Char(50), Option B: Char(50), Option C: Char(50), Option D: Char(50))
 - CK: PollID
 - ProjectID: not null
 - Topic: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Poll;

POLLID
-----
PROJECTID
-----
TOPIC
-----
OPTIONA
-----
OPTIONB
-----
OPTIONC
-----
OPTIOND
-----
Poll1

POLLID
-----
PROJECTID
-----
TOPIC
-----
OPTIONA
-----
OPTIONB
-----
OPTIONC
-----
OPTIOND
-----
P1

POLLID
-----
PROJECTID
-----
TOPIC
-----
OPTIONA
-----
OPTIONB
-----
OPTIONC
-----
OPTIOND
-----
Poll topic 1
```

```
POLLID
-----
PROJECTID
-----
TOPIC
-----
OPTIONA
-----
OPTIONB
-----
OPTIONC
-----
OPTIOND
-----
Option A1

POLLID
-----
PROJECTID
-----
TOPIC
-----
OPTIONA
-----
OPTIONB
-----
OPTIONC
-----
OPTIOND
-----
Option B1
```



```
POLLID
-----
PROJECTID
-----
TOPIC
-----
OPTIONA
-----
OPTIONB
-----
OPTIONC
-----
OPTIOND
-----
Option C1
-----
POLLID
-----
PROJECTID
-----
TOPIC
-----
OPTIONA
-----
OPTIONB
-----
OPTIONC
-----
OPTIOND
-----
Option D1
-----
```

- VoteHas(VoteID: Char(50), **PollID**: Char(50), Selection: Char(50))
 - CK: the combination of VoteID and PollID
 - Selection: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM VoteHas;

VOTEID
-----
POLLID
-----
SELECTION
-----
Vote1
Poll1
Option A1

Vote2
Poll2
Option A2

VOTEID
-----
POLLID
-----
SELECTION
-----

Vote3
Poll3
Option A3
```

- TaskComment_Contains(CommentID: Char(50), **TaskID**: Char(50), DateGenerated: Timestamp, Text: Char(255), **UserID**: Char(50))
 - CK: the combination of CommentID and TaskID
 - UserID: not null
 - ON DELETE CASCADE

```
SQL> SELECT * FROM TaskComment_Contains;

COMMENTID
-----
TASKID
-----
DATEGENERATED
-----
TEXT
-----
USERID
-----
Comment1
T1
20-MAR-24 10:00:00.000000 AM

COMMENTID
-----
TASKID
-----
DATEGENERATED
-----
TEXT
-----
USERID
-----
Comment text 1

COMMENTID
-----
TASKID
-----
DATEGENERATED
-----
TEXT
-----
USERID
-----
U1
```

- Receives(NotificationID: Char(50), UserID: Char(50))
 - CK: the combination of NotificationID and UserID
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Receives;

NOTIFICATIONID
-----
USERID
-----
N1
U1
N2
U2
N3
U3

NOTIFICATIONID
-----
USERID
-----
N4
U4
N5
U5
```

- Acquires(UserID: Char(50), RequestID: Char(50))
 - CK: the combination UserID and RequestID
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Acquires;

USERID
-----
REQUESTID
-----
U1
CR1
U2
CR2
U3
CR3

USERID
-----
REQUESTID
-----
U4
CR4
U5
CR5
```

- WorksOn(ProjectID: Char(50), UserID: Char(50))

- CK: the combination of ProjectID and UserID
- ON DELETE CASCADE

```
SQL> SELECT * FROM WorksOn;

PROJECTID
-----
USERID
-----
P1
U1

P1
U2

P1
U3

PROJECTID
-----
USERID
-----
P2
U1

P2
U2

P2
U3
```

- Makes(**UserID**: Char(50), **VoteID**: Char(50), **PollID**: CHAR(50))
 - CK: the combination of UserID and VoteID
 - ON DELETE CASCADE

```
SQL> SELECT * FROM Makes;

USERID
-----
VOTEID
-----
POLLID
-----
U1
Vote1
Poll1

U2
Vote2
Poll2

USERID
-----
VOTEID
-----
POLLID
-----
U3
Vote3
Poll3

U4
Vote4
```

SQL Queries (with some short snippets)

- INSERT Operation: index.php, Line 698-736

```
$statement = oci_parse($db_conn, "INSERT into CollaborationRequest
values (:bind1, :bind2, :bind3, :bind4)");
```

- DELETE Operation: index.php, Line 652-671

```
executePlainSQL("DELETE FROM appUSER WHERE email = '" . $email .
"'");
```

- UPDATE Operation: index.php, Line 562-600

```
executePlainSQL("UPDATE Poll SET ProjectID='" . $ProjectID . "'
WHERE PollID='" . $PollID . "'");
```

- Selection: index.php, Line 482-535

```
$basicQuery = "SELECT * FROM MeetupEvent";
        if (!empty($conditions)) $basicQuery .= " WHERE " .
implode(" ", $conditions);
$conditions[] = "AND Location LIKE '%$location1%' $logicOperator2
Location LIKE '%$location2%'";
```

- Projection: index.php, Line 435-458

```
$projectionQuery = "SELECT $selectedColumns FROM $tableName";
```

- Join: index.php, Line 673-681

```
$result = executePlainSQL("SELECT u.userID, p.projectName
        FROM appUSER u, WorksOn w, Project p
        WHERE u.userID = w.userID
        AND w.ProjectID = p.ProjectID
        AND u.userID = '" . $userID . "'
        AND p.Status = 'F' ");
```

- Aggregation with Group By: index.php, Line 738-744

```
$query = "SELECT TO_CHAR(dateGenerated, 'yyyy/mm/dd')
        AS NotificationDate, COUNT(notificationID)
        AS NotificationsCount
        FROM notification
        GROUP BY TO_CHAR(dateGenerated, 'yyyy/mm/dd')
        ORDER BY NotificationDate DESC";
```

- Aggregation with Having: index.php, Line 746-754

```
$query = "SELECT p.ProjectID, p.ProjectName,
        COUNT(t.TaskID)
        AS TaskCount, p.Status
        FROM Project p, Task t
        WHERE t.ProjectID = p.ProjectID
        GROUP BY p.ProjectID, p.ProjectName, p.Status
        HAVING COUNT(t.TaskID) >= $user_input";
```

- Nested Aggregation with Group By: index.php, Line 756-764

```
$query = "SELECT Location, AVG(AttendeeCount)
        AS avg_attendees
        FROM (SELECT Location, MeetupEventID,
        COUNT(userID)
        AS AttendeeCount
        FROM MeetupEvent
        GROUP BY Location, MeetupEventID)
```

```
GROUP BY Location";
```

- Division: index.php, Line 683-696

```
$result = executePlainSQL("SELECT A.userID, A1.firstName,
A2.lastname
FROM appUser A, appUser2 A1, appUser3 A2
WHERE A.email = A1.email AND A1.email =A2.email AND A.email =
A2.email AND NOT EXISTS
((SELECT P.projectID
FROM Project P)
MINUS
(SELECT W.projectID
FROM WorksOn W
WHERE W.userID=A.userID) ) ");
```

GUI Operations

| Operation/inputs | Before | After | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------|--------|-----------|-------------------|-----|-------------------|----|-------------------|-----|-------------------|----|-------------------|--|--------|-------|----|-------------------|----|-------------------|----|-------------------|----|-------------------|---|-------|----|----|---|---|-----------|--------|-----------|--------|-----|----|----|---|-----|----|----|---|-----|----|----|---|-----|----|----|---|-----|----|----|---|-------|----|----|---|-------|----|----|---|
| <div>INSERT new collaboration request</div> <div>Insert a new Collaboration Request (INSERT)</div> <div>Fill in the text boxes below to create a new Collaboration Request. The UserID and ProjectID must already exist; otherwise, an error message added to the Database, a success message will be displayed.</div> <div>Request ID: <input type="text" value="CR123"/></div> <div>User ID: <input type="text" value="U1"/></div> <div>ProjectID: <input type="text" value="P5"/></div> <div>Status: <input type="text" value="T"/></div> <div><input type="button" value="Submit"/></div> | <div>COLLABORATIONREQUEST Table</div> <table><tr><th>REQUESTID</th><th>USERID</th><th>PROJECTID</th><th>STATUS</th></tr><tr><td>CR1</td><td>U1</td><td>P1</td><td>T</td></tr><tr><td>CR2</td><td>U2</td><td>P2</td><td>F</td></tr><tr><td>CR3</td><td>U3</td><td>P3</td><td>T</td></tr><tr><td>CR4</td><td>U4</td><td>P4</td><td>F</td></tr><tr><td>CR5</td><td>U5</td><td>P5</td><td>T</td></tr><tr><td>CR100</td><td>U1</td><td>P3</td><td>T</td></tr></table> | REQUESTID | USERID | PROJECTID | STATUS | CR1 | U1 | P1 | T | CR2 | U2 | P2 | F | CR3 | U3 | P3 | T | CR4 | U4 | P4 | F | CR5 | U5 | P5 | T | CR100 | U1 | P3 | T | <div>COLLABORATIONREQUEST Table</div> <table><tr><th>REQUESTID</th><th>USERID</th><th>PROJECTID</th><th>STATUS</th></tr><tr><td>CR1</td><td>U1</td><td>P1</td><td>T</td></tr><tr><td>CR2</td><td>U2</td><td>P2</td><td>F</td></tr><tr><td>CR3</td><td>U3</td><td>P3</td><td>T</td></tr><tr><td>CR4</td><td>U4</td><td>P4</td><td>F</td></tr><tr><td>CR5</td><td>U5</td><td>P5</td><td>T</td></tr><tr><td>CR123</td><td>U1</td><td>P5</td><td>T</td></tr><tr><td>CR100</td><td>U1</td><td>P3</td><td>T</td></tr></table> | REQUESTID | USERID | PROJECTID | STATUS | CR1 | U1 | P1 | T | CR2 | U2 | P2 | F | CR3 | U3 | P3 | T | CR4 | U4 | P4 | F | CR5 | U5 | P5 | T | CR123 | U1 | P5 | T | CR100 | U1 | P3 | T |
| REQUESTID | USERID | PROJECTID | STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR1 | U1 | P1 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR2 | U2 | P2 | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR3 | U3 | P3 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR4 | U4 | P4 | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR5 | U5 | P5 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR100 | U1 | P3 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REQUESTID | USERID | PROJECTID | STATUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR1 | U1 | P1 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR2 | U2 | P2 | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR3 | U3 | P3 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR4 | U4 | P4 | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR5 | U5 | P5 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR123 | U1 | P5 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CR100 | U1 | P3 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>DELETE a user</div> <div>Delete A User (DELETE)</div> <div>The values are case sensitive and if you do anything.</div> <div>User Email: <input type="text" value="user3@example.com"/></div> <div><input type="button" value="Delete"/></div> | <div>APPUSER Table</div> <table><tr><th>USERID</th><th>EMAIL</th></tr><tr><td>U1</td><td>user1@example.com</td></tr><tr><td>U2</td><td>user2@example.com</td></tr><tr><td>U3</td><td>user3@example.com</td></tr><tr><td>U4</td><td>user4@example.com</td></tr><tr><td>U5</td><td>user5@example.com</td></tr></table> | USERID | EMAIL | U1 | user1@example.com | U2 | user2@example.com | U3 | user3@example.com | U4 | user4@example.com | U5 | user5@example.com | <div>Table</div> <table><tr><th>USERID</th><th>EMAIL</th></tr><tr><td>U1</td><td>user1@example.com</td></tr><tr><td>U2</td><td>user2@example.com</td></tr><tr><td>U4</td><td>user4@example.com</td></tr><tr><td>U5</td><td>user5@example.com</td></tr></table> | USERID | EMAIL | U1 | user1@example.com | U2 | user2@example.com | U4 | user4@example.com | U5 | user5@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USERID | EMAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U1 | user1@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U2 | user2@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U3 | user3@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U4 | user4@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U5 | user5@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| USERID | EMAIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U1 | user1@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U2 | user2@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U4 | user4@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U5 | user5@example.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UPDATE a poll

Update A Poll (UPDATE)

Leave the field blank if you do not wish to modify

Poll ID(Poll you would like to update):

Poll1

Project ID:

Please Select

Topic:

Topic changed

OptionA:

A1 changed

OptionB:

B1 changed

OptionC:

C1 changed

OptionD:

D1 changed

Update

POLL Table

| POLLID | PROJECTID | TOPIC | OPTIONA | OPTIONB | OPTIONC | OPTIOND |
|--------|-----------|--------------|-----------|-----------|-----------|-----------|
| Poll1 | P1 | Poll topic 1 | Option A1 | Option B1 | Option C1 | Option D1 |
| Poll2 | P2 | Poll topic 2 | Option A2 | Option B2 | Option C2 | Option D2 |
| Poll3 | P3 | Poll topic 3 | Option A3 | Option B3 | Option C3 | Option D3 |
| Poll4 | P4 | Poll topic 4 | Option A4 | Option B4 | Option C4 | Option D4 |
| Poll5 | P5 | Poll topic 5 | Option A5 | Option B5 | Option C5 | Option D5 |

Table

| POLLID | PROJECTID | TOPIC | OPTIONA | OPTIONB | OPTIONC | OPTIOND |
|--------|-----------|---------------|------------|------------|------------|------------|
| Poll1 | P1 | Topic changed | A1 changed | B1 changed | C1 changed | D1 changed |
| Poll2 | P2 | Poll topic 2 | Option A2 | Option B2 | Option C2 | Option D2 |
| Poll3 | P3 | Poll topic 3 | Option A3 | Option B3 | Option C3 | Option D3 |
| Poll4 | P4 | Poll topic 4 | Option A4 | Option B4 | Option C4 | Option D4 |
| Poll5 | P5 | Poll topic 5 | Option A5 | Option B5 | Option C5 | Option D5 |

SELECTION

MeetupEvents

Time After:

11:00

 AND Time Before:

19:00

Location 1:

Downtown

 OR Location 2:

Burnaby

Submit

Retrieved data from table Meetup Event:

| MeetupEvent ID | Project ID | Location | Time | User ID |
|-----------------|------------|-----------|------------------------------|---------|
| MEETUPRICHMOND1 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U1 |
| MEETUPRICHMOND1 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U2 |
| MEETUPRICHMOND2 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U1 |
| MEETUPUBC1 | P2 | UBC | 21-MAR-24 09.30.00.000000 AM | U4 |
| MEETUPUBC1 | P2 | UBC | 21-MAR-24 09.30.00.000000 AM | U5 |
| MEETUPDOWNTOWN1 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U4 |
| MEETUPDOWNTOWN2 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U5 |
| MEETUPBURNABY1 | P3 | Burnaby | 23-MAR-24 03.00.00.000000 PM | U4 |
| MEETUPUBC2 | P4 | UBCV/UBCO | 27-MAR-24 03.00.00.000000 PM | U4 |
| MEETUPUBC3 | P4 | UBCV/UBCO | 27-MAR-24 07.00.00.000000 PM | U4 |

Retrieved data from table Meetup Event:

| MeetupEvent ID | Project ID | Location | Time | User ID |
|-----------------|------------|----------|------------------------------|---------|
| MEETUPDOWNTOWN1 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U4 |
| MEETUPDOWNTOWN2 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U5 |
| MEETUPBURNABY1 | P3 | Burnaby | 23-MAR-24 03.00.00.000000 PM | U4 |

PROJECTION

Display Tables

Display Tables (Projection)

Select Table:

NOTIFICATION

Get Columns

NOTIFICATION

APPUSER

APPUSER1

APPUSER2

APPUSER3

PROJECTMANAGER

MEMBER

PROJECT

PROJECT1

PROJECT2

COLLABORATIONREQUEST

TASK

MEETUPEVENT

POLL

VOTEHAS

TASKCOMMENT_CONTAINS

RECEIVES

ACQUIRES

WORKSDON

MAKES

Select Column

NOTIFICATION

TEXT

DATEGENERATED

Display Table

NOTIFICATION Table

| NOTIFICATIONID | TEXT | DATEGENERATED |
|----------------|---------------------|------------------------------|
| N1 | Notification text 1 | 20-MAR-24 10.00.00.000000 AM |
| N2 | Notification text 2 | 21-MAR-24 09.30.00.000000 AM |
| N3 | Notification text 3 | 22-MAR-24 02.45.00.000000 PM |
| N4 | Notification text 4 | 23-MAR-24 03.00.00.000000 PM |
| N5 | Notification text 5 | 24-MAR-24 11.20.00.000000 AM |
| N6 | Notification text 6 | 25-MAR-24 11.20.21.000000 AM |
| N7 | Notification text 7 | 25-MAR-24 11.20.22.000000 AM |
| N8 | Notification text 8 | 25-MAR-24 11.20.23.000000 AM |
| N9 | Notification text 9 | 25-MAR-24 11.20.24.000000 AM |

JOIN shows

ongoing projects

of a specified

user

List The Ongoing Projects of A User (Join)

The values are case sensitive and if you enter in the wrong case, the do anything.

User Id:

U1

Search

APPUSER Table

| USERID | EMAIL |
|--------|-------------------|
| U1 | user1@example.com |
| U2 | user2@example.com |
| U3 | user3@example.com |
| U4 | user4@example.com |
| U5 | user5@example.com |

PROJECT Table

| PROJECTID | PROJECTNAME | STATUS |
|-----------|-------------|--------|
| P1 | Project 1 | T |
| P2 | Project 2 | F |
| P3 | Project 3 | T |
| P4 | Project 4 | F |
| P5 | Project 5 | T |

Table

| USERID | PROJECTNAME |
|--------|-------------|
| U1 | Project 2 |
| U1 | Project 4 |

| | <div><div>WORKSON Table</div><table><tr><th>PROJECTID</th><th>USERID</th></tr><tr><td>P1</td><td>U1</td></tr><tr><td>P1</td><td>U2</td></tr><tr><td>P1</td><td>U3</td></tr><tr><td>P2</td><td>U1</td></tr><tr><td>P2</td><td>U2</td></tr><tr><td>P2</td><td>U3</td></tr><tr><td>P3</td><td>U1</td></tr><tr><td>P3</td><td>U2</td></tr><tr><td>P3</td><td>U3</td></tr><tr><td>P4</td><td>U1</td></tr><tr><td>P4</td><td>U2</td></tr><tr><td>P4</td><td>U3</td></tr><tr><td>P4</td><td>U4</td></tr><tr><td>P5</td><td>U1</td></tr><tr><td>P5</td><td>U2</td></tr><tr><td>P5</td><td>U3</td></tr><tr><td>P5</td><td>U5</td></tr></table></div> | PROJECTID | USERID | P1 | U1 | P1 | U2 | P1 | U3 | P2 | U1 | P2 | U2 | P2 | U3 | P3 | U1 | P3 | U2 | P3 | U3 | P4 | U1 | P4 | U2 | P4 | U3 | P4 | U4 | P5 | U1 | P5 | U2 | P5 | U3 | P5 | U5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|------------------------------|------------------------------|---------------|--------|---------------------|------------------------------|----|---------------------|------------------------------|-----------|---------------------|------------------------------|----------|------------------------------|------------------------------|-----------------|---------------------|------------------------------|------------------------------|---------------------|------------------------------|-----------|---------------------|------------------------------|------------|---------------------|------------------------------|--------|------------------------------|------------------------------|-----------------|--------------------------------|------------|------------------------------|------------|-----------------|------------|----------|------------------------------|----|----------------|----|------------|------------------------------|----|------------|----|-----------|------------------------------|----|------------|----|-----------|------------------------------|----|----------|-----------------------------|----------|-----|-----------|---|-----|---|---------|---|----------|---|--|
| PROJECTID | USERID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1 | U1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1 | U2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1 | U3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2 | U1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2 | U2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2 | U3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P3 | U1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P3 | U2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P3 | U3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P4 | U1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P4 | U2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P4 | U3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P4 | U4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P5 | U1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P5 | U2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P5 | U3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P5 | U5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aggregation with Group By notification dates | <div><div>NOTIFICATION Table</div><table><tr><th>NOTIFICATIONID</th><th>TEXT</th><th>DATEGENERATED</th></tr><tr><td>N1</td><td>Notification text 1</td><td>20-MAR-24 10.00.00.000000 AM</td></tr><tr><td>N2</td><td>Notification text 2</td><td>21-MAR-24 09.30.00.000000 AM</td></tr><tr><td>N3</td><td>Notification text 3</td><td>22-MAR-24 02.45.00.000000 PM</td></tr><tr><td>N4</td><td>Notification text 4</td><td>23-MAR-24 03.00.00.000000 PM</td></tr><tr><td>N5</td><td>Notification text 5</td><td>24-MAR-24 11.20.00.000000 AM</td></tr><tr><td>N6</td><td>Notification text 6</td><td>25-MAR-24 11.20.21.000000 AM</td></tr><tr><td>N7</td><td>Notification text 7</td><td>25-MAR-24 11.20.22.000000 AM</td></tr><tr><td>N8</td><td>Notification text 8</td><td>25-MAR-24 11.20.23.000000 AM</td></tr><tr><td>N9</td><td>Notification text 9</td><td>25-MAR-24 11.20.24.000000 AM</td></tr></table></div> <div><div>Retrieved data from table Notification:</div><table><tr><th>Date Generated</th><th>Number of Notification per day</th></tr><tr><td>2024/03/25</td><td>4</td></tr><tr><td>2024/03/24</td><td>1</td></tr><tr><td>2024/03/23</td><td>1</td></tr><tr><td>2024/03/22</td><td>1</td></tr><tr><td>2024/03/21</td><td>1</td></tr><tr><td>2024/03/20</td><td>1</td></tr></table></div> | NOTIFICATIONID | TEXT | DATEGENERATED | N1 | Notification text 1 | 20-MAR-24 10.00.00.000000 AM | N2 | Notification text 2 | 21-MAR-24 09.30.00.000000 AM | N3 | Notification text 3 | 22-MAR-24 02.45.00.000000 PM | N4 | Notification text 4 | 23-MAR-24 03.00.00.000000 PM | N5 | Notification text 5 | 24-MAR-24 11.20.00.000000 AM | N6 | Notification text 6 | 25-MAR-24 11.20.21.000000 AM | N7 | Notification text 7 | 25-MAR-24 11.20.22.000000 AM | N8 | Notification text 8 | 25-MAR-24 11.20.23.000000 AM | N9 | Notification text 9 | 25-MAR-24 11.20.24.000000 AM | Date Generated | Number of Notification per day | 2024/03/25 | 4 | 2024/03/24 | 1 | 2024/03/23 | 1 | 2024/03/22 | 1 | 2024/03/21 | 1 | 2024/03/20 | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTIFICATIONID | TEXT | DATEGENERATED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N1 | Notification text 1 | 20-MAR-24 10.00.00.000000 AM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N2 | Notification text 2 | 21-MAR-24 09.30.00.000000 AM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N3 | Notification text 3 | 22-MAR-24 02.45.00.000000 PM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N4 | Notification text 4 | 23-MAR-24 03.00.00.000000 PM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N5 | Notification text 5 | 24-MAR-24 11.20.00.000000 AM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N6 | Notification text 6 | 25-MAR-24 11.20.21.000000 AM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N7 | Notification text 7 | 25-MAR-24 11.20.22.000000 AM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N8 | Notification text 8 | 25-MAR-24 11.20.23.000000 AM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N9 | Notification text 9 | 25-MAR-24 11.20.24.000000 AM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date Generated | Number of Notification per day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2024/03/25 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2024/03/24 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2024/03/23 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2024/03/22 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2024/03/21 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2024/03/20 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aggregation with Having filter projects <div>Sort Projects by the Number of : Filter out projects based on how many subtasks the Choose the number of the task(s) to filter: 6</div> <div>Display</div> | <div><div>Retrieved data from tables Project and Task:</div><table><tr><th>Project ID</th><th>Project Name</th><th># of Task</th><th>Status</th></tr><tr><td>P1</td><td>Project 1</td><td>6</td><td>T</td></tr><tr><td>P3</td><td>Project 3</td><td>1</td><td>T</td></tr><tr><td>P4</td><td>Project 4</td><td>1</td><td>F</td></tr><tr><td>P5</td><td>Project 5</td><td>1</td><td>T</td></tr><tr><td>P2</td><td>Project 2</td><td>1</td><td>F</td></tr></table></div> <div><div>Retrieved data from tables Project and Task:</div><table><tr><th>Project ID</th><th>Project Name</th><th># of Task</th><th>Status</th></tr><tr><td>P1</td><td>Project 1</td><td>6</td><td>T</td></tr></table></div> | Project ID | Project Name | # of Task | Status | P1 | Project 1 | 6 | T | P3 | Project 3 | 1 | T | P4 | Project 4 | 1 | F | P5 | Project 5 | 1 | T | P2 | Project 2 | 1 | F | Project ID | Project Name | # of Task | Status | P1 | Project 1 | 6 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project ID | Project Name | # of Task | Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1 | Project 1 | 6 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P3 | Project 3 | 1 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P4 | Project 4 | 1 | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P5 | Project 5 | 1 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P2 | Project 2 | 1 | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project ID | Project Name | # of Task | Status | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P1 | Project 1 | 6 | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nested Aggregation with Group By average attendees | <div><div>MEETUPEVENT Table</div><table><tr><th>MEETUPEVENTID</th><th>PROJECTID</th><th>LOCATION</th><th>TIME</th><th>USERID</th></tr><tr><td>MEETUPRICHMOND1</td><td>P1</td><td>Richmond</td><td>20-MAR-24 10.00.00.000000 AM</td><td>U1</td></tr><tr><td>MEETUPRICHMOND1</td><td>P1</td><td>Richmond</td><td>20-MAR-24 10.00.00.000000 AM</td><td>U2</td></tr><tr><td>MEETUPRICHMOND2</td><td>P1</td><td>Richmond</td><td>20-MAR-24 10.00.00.000000 AM</td><td>U1</td></tr><tr><td>MEETUPUBC1</td><td>P2</td><td>UBC</td><td>21-MAR-24 09.30.00.000000 AM</td><td>U4</td></tr><tr><td>MEETUPUBC1</td><td>P2</td><td>UBC</td><td>21-MAR-24 09.30.00.000000 AM</td><td>U5</td></tr><tr><td>MEETUPDOWNTOWN1</td><td>P3</td><td>Downtown</td><td>22-MAR-24 02.45.00.000000 PM</td><td>U4</td></tr><tr><td>MEETUPDOWNTOWN2</td><td>P3</td><td>Downtown</td><td>22-MAR-24 02.45.00.000000 PM</td><td>U5</td></tr><tr><td>MEETUPBURNABY1</td><td>P3</td><td>Burnaby</td><td>23-MAR-24 03.00.00.000000 PM</td><td>U4</td></tr><tr><td>MEETUPUBC2</td><td>P4</td><td>UBCV/UBCO</td><td>27-MAR-24 03.00.00.000000 PM</td><td>U4</td></tr><tr><td>MEETUPUBC3</td><td>P4</td><td>UBCV/UBCO</td><td>27-MAR-24 07.00.00.000000 PM</td><td>U4</td></tr></table></div> <div><div>Retrieved data from MeetupEvent table:</div><table><tr><th>Location</th><th>Average Attendees Per Event</th></tr><tr><td>Richmond</td><td>1.5</td></tr><tr><td>UBCV/UBCO</td><td>1</td></tr><tr><td>UBC</td><td>2</td></tr><tr><td>Burnaby</td><td>1</td></tr><tr><td>Downtown</td><td>1</td></tr></table></div> | MEETUPEVENTID | PROJECTID | LOCATION | TIME | USERID | MEETUPRICHMOND1 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U1 | MEETUPRICHMOND1 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U2 | MEETUPRICHMOND2 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U1 | MEETUPUBC1 | P2 | UBC | 21-MAR-24 09.30.00.000000 AM | U4 | MEETUPUBC1 | P2 | UBC | 21-MAR-24 09.30.00.000000 AM | U5 | MEETUPDOWNTOWN1 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U4 | MEETUPDOWNTOWN2 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U5 | MEETUPBURNABY1 | P3 | Burnaby | 23-MAR-24 03.00.00.000000 PM | U4 | MEETUPUBC2 | P4 | UBCV/UBCO | 27-MAR-24 03.00.00.000000 PM | U4 | MEETUPUBC3 | P4 | UBCV/UBCO | 27-MAR-24 07.00.00.000000 PM | U4 | Location | Average Attendees Per Event | Richmond | 1.5 | UBCV/UBCO | 1 | UBC | 2 | Burnaby | 1 | Downtown | 1 | |
| MEETUPEVENTID | PROJECTID | LOCATION | TIME | USERID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPRICHMOND1 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPRICHMOND1 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPRICHMOND2 | P1 | Richmond | 20-MAR-24 10.00.00.000000 AM | U1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPUBC1 | P2 | UBC | 21-MAR-24 09.30.00.000000 AM | U4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPUBC1 | P2 | UBC | 21-MAR-24 09.30.00.000000 AM | U5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPDOWNTOWN1 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPDOWNTOWN2 | P3 | Downtown | 22-MAR-24 02.45.00.000000 PM | U5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPBURNABY1 | P3 | Burnaby | 23-MAR-24 03.00.00.000000 PM | U4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPUBC2 | P4 | UBCV/UBCO | 27-MAR-24 03.00.00.000000 PM | U4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEETUPUBC3 | P4 | UBCV/UBCO | 27-MAR-24 07.00.00.000000 PM | U4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Location | Average Attendees Per Event | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Richmond | 1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UBCV/UBCO | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UBC | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Burnaby | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Downtown | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DIVISION all
users
participated in
all projects

WORKSON Table

| PROJECTID | USERID |
|-----------|--------|
| P1 | U1 |
| P1 | U2 |
| P1 | U3 |
| P2 | U1 |
| P2 | U2 |
| P2 | U3 |
| P3 | U1 |
| P3 | U2 |
| P3 | U3 |
| P4 | U1 |
| P4 | U2 |
| P4 | U3 |
| P4 | U4 |
| P5 | U1 |
| P5 | U2 |
| P5 | U3 |
| P5 | U5 |

APPUSER Table

| USERID | EMAIL |
|--------|-------------------|
| U1 | user1@example.com |
| U2 | user2@example.com |
| U3 | user3@example.com |
| U4 | user4@example.com |
| U5 | user5@example.com |

APPUSER3 Table

| EMAIL | LASTNAME |
|-------------------|-----------|
| user1@example.com | White |
| user2@example.com | Lin |
| user3@example.com | Henderson |
| user4@example.com | Tanner |
| user5@example.com | Farley |

PROJECT Table

| PROJECTID | PROJECTNAME | STATUS |
|-----------|-------------|--------|
| P1 | Project 1 | T |
| P2 | Project 2 | F |
| P3 | Project 3 | T |
| P4 | Project 4 | F |
| P5 | Project 5 | T |

APPUSER2 Table

| EMAIL | FIRSTNAME |
|-------------------|-----------|
| user1@example.com | Jeff |
| user2@example.com | Jessica |
| user3@example.com | Caroline |
| user4@example.com | Michael |
| user5@example.com | Rachel |

| USERID | FIRSTNAME | LASTNAME |
|--------|-----------|-----------|
| U1 | Jeff | White |
| U2 | Jessica | Lin |
| U3 | Caroline | Henderson |