

CPSC 304 Project Cover Page

Milestone #: 4

Date: June 22, 2023

Group Number: 14

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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

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- Repository Link

https://github.students.cs.ubc.ca/CPSC304-2023S-T1/project_j4i5v_j7r8j_r6z9i

- SQL Script

Please refer to the “init.sql” file in our project. From the repository link, click the “sql” directory, and then click “init.sql”.

- General Description & What It Accomplishes

Our project is an administrative tool designed to manage and organize data related to users' fitness regimes. It provides a comprehensive system for storing and tracking information, allowing administrators to effectively monitor and support users in their fitness journeys. The tool encompasses various database models, including users, workouts, exercises, training plans, fitness goals, achievements, physical measurements, and gym locations. With this tool, administrators can facilitate consistency and organization in users' workouts, enabling them to track progress, set personal targets, and achieve their fitness goals more effectively. A specific example of an application of our project is for personal trainers to log information associated with their clients. For example a personal trainer could use this app to track and update their clients' measurements as their fitness progresses.

- Final Schema vs Schema We Turned In

Our final schema has a few differences from the schema we originally turned in. Firstly, we added an attribute to the Goals table, to track whether or not a goal has been achieved. This allows us to choose which goals to display (only those not achieved) without deleting them since the Achievements and Goals tables are linked via goalID. Secondly, we decided to get rid of the ‘ExerciseLog’ entity and its associated attributes and relationships, as we found it was redundant with the ‘Exercise’ entity. Thirdly, we decided to add a ‘TrainingPlan’ entity with attributes planID, name, and description, and this entity allows administrators to view different training plans, which consist of multiple exercises. Also, we changed the name of the ‘User’ entity to ‘Users’, as User is a keyword in SQL. Lastly, we decided to change the audience of the project from user-focused to admin-focused, as we found our final schema lend itself better to admin use.

- Copy of the Final Schema

Users(ID: Integer, name: String)

User_Achievement(achievementID: Integer, description: String, dateAccomplished: Date, achieved: Integer, **userID**: Integer **goalID**: Integer)

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User_FitnessGoal(goalID: Integer, targetDate: Date, description: String, achieved: Integer, userID: Integer)
Workout(workoutID: Integer, name: String)
Exercise(name: String)
TrainingPlan(planID: INT, name: String, description: String)
TrainingPlanConsistsOf(planID: Integer, exerciseName: String)
Sees(userID: Integer, planID: Integer)
CardioExercise(name: String, duration: Integer, speed: Integer)
StrengthExercise(name: String, reps: Integer, weight: Integer, sets: Integer)
FlexibilityExercise(name: String, duration: Integer, sets: Integer)
Gym(address: String, postalCode: String, city: String, name: String)
PCC(postalCode: String, country: String)
User_Measurement(UserID: Integer, height: Integer, weight: Integer, BMI: Real)
Completes(userID: Integer, workoutID: Integer, date: Date)
Attends(address: String, postalCode: String, userID: Integer)
AccomplishedBy(goalID: Integer, workoutID: Integer)
ConsistsOf(workoutID: Integer, exerciseName: String)

- Query SQL Statements:

INSERT (gym.php)

```
INSERT INTO Gym (ADDRESS, POSTALCODE, CITY, NAME) VALUES (:address, :postalCode, :city, :name);
INSERT INTO PCC (POSTALCODE, COUNTRY) VALUES (:postalCode, :country);
INSERT INTO Attends (ADDRESS, POSTALCODE, USERID) VALUES (:address, :postalCode, :userID);
```

DELETE (goals.php)

```
DELETE FROM User_FitnessGoal WHERE goalID = :goalId
```

UPDATE (goals.php)

```
UPDATE USER_FITNESSGOAL SET DESCRIPTION = :DESCRIPTION, TARGETDATE =
TO_DATE(:TARGETDATE, 'YYYY-MM-DD')
```

SELECTION/PROJECTION (selectDataResult.php)

dynamic query depending on user selected input

```
"SELECT " . implode(", ", $selectedColumns) . " FROM $selectedTable WHERE " . implode(" AND ", $filterConditions)
```

JOIN (gym.php)

```
SELECT Gym.address, Gym.postalCode, PCC.country, Gym.city, Gym.name, Attends.userID FROM
Gym LEFT JOIN Attends ON Gym.address = Attends.address AND Gym.postalCode =
Attends.postalCode LEFT JOIN PCC ON Gym.postalCode = PCC.postalCode
```

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AGGREGATION WITH GROUP BY (numberOfGymsPerCountry.php)

```
SELECT PCC.country, COUNT(*) FROM PCC GROUP BY PCC.country
```

AGGREGATION WITH HAVING (numUsersBMI.php)

```
SELECT COUNT(*) AS user_count
  FROM (
    SELECT Users.ID
      FROM Users
     JOIN User_Measurement ON User_Measurement.userID = Users.ID
    GROUP BY Users.ID
   HAVING MAX(User_Measurement.BMI) > :BMIValue
  ) subquery
```

NESTED AGGREGATION WITH GROUP BY (averageBMI.php)

```
CREATE VIEW TEMP(userID, average) AS
  SELECT u.userID, AVG(u.bmi) AS average
    FROM User_Measurement u
   GROUP BY userID
SELECT t.userID, u.name, t.average
  FROM Temp t
 JOIN Users u ON t.userID = u.ID
 WHERE t.average < (SELECT AVG(Temp.average) FROM TEMP)
```

DIVISION (allUsersAllGyms.php)

```
SELECT DISTINCT(U.ID) AS U_ID, U.name AS U_NAME
  FROM Users U
 JOIN Attends A ON U.ID = A.userID
 JOIN Gym G ON A.address = G.address AND A.postalCode = G.postalCode
 WHERE NOT EXISTS (
   SELECT G1.address, G1.postalCode
     FROM Gym G1
    WHERE NOT EXISTS (
      SELECT A1.address, A1.postalCode
        FROM Attends A1
       WHERE A1.userID = U.ID
         AND A1.address = G1.address
         AND A1.postalCode = G1.postalCode
    )
  )
```

- QUERY DB EXAMPLES:

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Query - INSERT

Before insert

ATTENDS		
ADDRESS	POSTALCODE	USERID
06720 Ciudad de Mexico	J3T 1C9	3
06720 Ciudad de Mexico	J3T 1C9	5
1121 Ironwood St	V9W 5L6	3
1121 Ironwood St	V9W 5L6	5
1350 Manufacturing St Suite 204	75207	3
1350 Manufacturing St Suite 204	75207	4
1350 Manufacturing St Suite 204	75207	5
206 Lakeside Dr	V1L 6B9	3
206 Lakeside Dr	V1L 6B9	5
3407 Guadalupe St	78705	3
3407 Guadalupe St	78705	4
3407 Guadalupe St	78705	5
5851 West Blvd	V6M 3W9	3
5851 West Blvd	V6M 3W9	5
589 Baker St.	V1L 6A3	3
589 Baker St.	V1L 6A3	5
6000 Student Union Blvd	V6T 1Z1	1
6000 Student Union Blvd	V6T 1Z1	2
6000 Student Union Blvd	V6T 1Z1	3
6000 Student Union Blvd	V6T 1Z1	5

Back

View Table Data

GYM			
ADDRESS	POSTALCODE	CITY	NAME
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirnCoop Fitness Centre
3407 Guadalupe St	78705	Austin	Anytime Fitness
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym
589 Baker St.	V1L 6A3	Nelson	Power By you
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Exatus Gym
5851 West Blvd	V6M 3W9	Vancouver	Kerrisdale Centre

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[Home](#)

Joint Tables: Gyms, FCC, and CSC

[Add Gym](#) | [Compute Number of Gyms per Country](#) | [Find Users Attending all Gyms](#)

JOIN WHERE Address = [Apply Filter](#)

Address	Postal Code	City	Name	Country	UserID
06720 Ciudad de Mexico	JTT 1C9	Mexico City	Extais Gym	Mexico	3
06720 Ciudad de Mexico	JTT 1C9	Mexico City	Extais Gym	Mexico	5
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	3
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	5
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	3
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	4
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	5
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	3
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	5
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	3
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	4
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	5
5851 West Blvd	V6M 3W9	Vancouver	Kerrisdale Centre	Canada	3
5851 West Blvd	V6M 3W9	Vancouver	Kerrisdale Centre	Canada	5
589 Baker St.	V1L 6A3	Nelson	Power By you	Canada	3
589 Baker St.	V1L 6A3	Nelson	Power By you	Canada	5
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	1
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	2
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	3
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	5
7124 Maple St	V6M 2Z1	Vancouver	Random Gym	Canada	3
7124 Maple St	V6M 2Z1	Vancouver	Random Gym	Canada	3

[Add](#)

After

ATTENDS

ADDRESS	POSTALCODE	USERID
06720 Ciudad de Mexico	JTT 1C9	3
06720 Ciudad de Mexico	JTT 1C9	5
1121 Ironwood St	V9W 5L6	3
1121 Ironwood St	V9W 5L6	5
1350 Manufacturing St Suite 204	75207	3
1350 Manufacturing St Suite 204	75207	4
1350 Manufacturing St Suite 204	75207	5
206 Lakeside Dr	V1L 6B9	3
206 Lakeside Dr	V1L 6B9	5
3407 Guadalupe St	78705	3
3407 Guadalupe St	78705	4
3407 Guadalupe St	78705	5
5851 West Blvd	V6M 3W9	3
5851 West Blvd	V6M 3W9	5
589 Baker St.	V1L 6A3	3
589 Baker St.	V1L 6A3	5
6000 Student Union Blvd	V6T 1Z1	1
6000 Student Union Blvd	V6T 1Z1	2
6000 Student Union Blvd	V6T 1Z1	3
6000 Student Union Blvd	V6T 1Z1	5
7124 Maple St	V6M 2Z1	3

GYM

ADDRESS	POSTALCODE	CITY	NAME
7124 Maple St	V6M 2Z1	Vancouver	Random Gym
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre
3407 Guadalupe St	78705	Austin	Anytime Fitness
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym
589 Baker St.	V1L 6A3	Nelson	Power By you
06720 Ciudad de Mexico	JTT 1C9	Mexico City	Extais Gym
5851 West Blvd	V6M 3W9	Vancouver	Kerrisdale Centre

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Back JOIN WHERE Address = Enter value Apply Filter

Address	Postal Code	City	Name	Country	User ID
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	3
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	5
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	3
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	5
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	3
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	4
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	5
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	3
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	5
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	3
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	4
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	5
589 Baker St.	V1L 6A3	Nelson	Power By you	Canada	3
589 Baker St.	V1L 6A3	Nelson	Power By you	Canada	5
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	1
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	2
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	3
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	5
7124 Maple St.	V6M 2Z1	Vancouver	Random Gym	Canada	3

Query - DELETE

Before Deleting goal Id of 1

Back

Fitness Goals

+ +

Goal ID	Description	Target Date	User ID	Action
1	20 chin-ups	31-DEC-23	1	Edit Delete
2	Splits on both sides	30-JAN-24	2	Edit Delete
4	Splits on both sides	30-NOV-23	4	Edit Delete
5	Run for 30 minutes at 9 kph	31-DEC-23	5	Edit Delete
6	130 chin ups	12-JUN-23	1	Edit Achieve Delete
7	80 push-ups	15-OCT-23	2	Edit Achieve Delete
8	Lose Weight	01-JAN-24	3	Edit Achieve Delete
9	Cycle for 30 minutes	01-AUG-23	4	Edit Achieve Delete
10	Run for 60 minutes at 9 kph	31-DEC-23	5	Edit Achieve Delete

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Fitness Achievements

Achievement ID	Description	Date Accomplished	User ID	Goal ID
1	20 chin-ups	06-DEC-23	1	1
3	Splits on both sides	05-JAN-23	2	3
4	Splits on both sides	15-JAN-23	4	4
5	Run for 30 minutes at 9 kph	01-JAN-23	5	5

After delete

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Fitness Goals

[+](#)

Goal ID	Description	Target Date	User ID	Action
3	Splits on both sides	30-JAN-24	3	Edit Delete
4	Splits on both sides	30-NOV-23	4	Edit Delete
5	Run for 30 minutes at 9 kph	31-DEC-23	5	Edit Delete
6	100 chin ups	12-JUN-23	1	Edit Achieve Delete
7	80 push-ups	15-OCT-23	2	Edit Achieve Delete
8	Lose Weight	01-JAN-24	3	Edit Achieve Delete
9	Cycle for 30 minutes	01-AUG-23	4	Edit Achieve Delete
10	Run for 60 minutes at 9 kph	31-DEC-23	5	Edit Achieve Delete

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Fitness Achievements

Achievement ID	Description	Date Accomplished	User ID	Goal ID
3	Splits on both sides	05-JAN-23	2	3
4	Splits on both sides	15-JAN-23	4	4
5	Run for 30 minutes at 9 kph	01-JAN-23	5	5

Query - UPDATE

Before update tuple with goal id 6

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Fitness Goals

[+](#)

Goal ID	Description	Target Date	User ID	Action
17	Touch toes	01-JAN-24	2	Edit Achieve Delete
4	Splits on both sides	30-NOV-23	4	Edit Delete
5	Run for 30 minutes at 9 kph	31-DEC-23	5	Edit Delete
6	100 chin-ups	12-NOV-23	1	Edit Delete
	110 pull-ups	10/11/2023		Update Cancel
7	80 push-ups	15-OCT-23	2	Edit Achieve Delete
8	Lose Weight	01-JAN-24	3	Edit Achieve Delete
9	Cycle for 30 minutes	01-AUG-23	4	Edit Achieve Delete
10	Run for 60 minutes at 9 kph	31-DEC-23	5	Edit Delete

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Fitness Goals

+

Goal ID	Description	Target Date	User ID	Action
17	Touch toes	01-JAN-24	2	Edit Achieve Delete
4	Splits on both sides	30-NOV-23	4	Edit Delete
5	Run for 30 minutes at 9 kph	31-DEC-23	5	Edit Delete
6	110 pull-ups	11-OCT-23	1	Edit Delete
7	80 push-ups	15-OCT-23	2	Edit Achieve Delete
8	Lose Weight	01-JAN-24	3	Edit Achieve Delete
9	Cycle for 30 minutes	01-AUG-23	4	Edit Achieve Delete
10	Run for 60 minutes at 9 kph	31-DEC-23	5	Edit Delete
18	push up	01-JAN-00	1	Edit Achieve Delete

Query - Selection

Back

View Table Data

Select a Table : CARDIOEXERCISE Select

Select all columns you would like to show:
Enter values in boxes to filter. Leave empty if no filtering desired.

NAME Equal to (=) Text

DURATION Equal to (=) 5

SPEED Equal to (=) Number

[Get Table](#)

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View Table Data

CARDIOEXERCISE		
NAME	DURATION	SPEED
Jump Squats and Lunges	5	
Squat Jump Sequence	5	
Hop-Scotch Circuit	5	

Query - Projection

Back

View Table Data

USER_ACHIEVEMENT	
ACHIEVEMENTID	GOALID
3	3
4	4
5	5

Back

View Table Data

Select a Table :

Select all columns you would like to show:
Enter values in boxes to filter. Leave empty if no filtering desired.

<input checked="" type="checkbox"/> ACHIEVEMENTID	Equal to (=)	<input type="text"/>
<input type="checkbox"/> DESCRIPTION	Equal to (=)	<input type="text"/>
<input type="checkbox"/> DATEACCOMPLISHED	Equal to (=)	<input type="text"/>
<input type="checkbox"/> USERID	Equal to (=)	<input type="text"/>
<input checked="" type="checkbox"/> GOALID	Equal to (=)	<input type="text"/>

Query - Join

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GYM			
ADDRESS	POSTALCODE	CITY	NAME
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre
3407 Guadalupe St	78705	Austin	Anytime Fitness
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym
589 Baker St.	V1L 6A3	Nelson	Power By you
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym

PCC	
POSTALCODE	COUNTRY
V6T 1Z1	Canada
78705	United States
V1L 6B9	Canada
V9W 5L6	Canada
75207	United States
V1L 6A3	Canada
J3T 1C9	Mexico

USERS	
ID	NAME
1	Kylee
2	Jon
3	Kashish
4	Mickey
5	Naruto

Join

Joint Table: Gyms, PCC, and User

Add Gym | Compute Number of Gyms per Country | Find Users Attending all Gyms

JOIN WHERE Address = Enter value

Address	Postal Code	City	Name	Country	UserID
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	3
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	5
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	3
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	5
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	3
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	4
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	5
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	3
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	5
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	3
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	4
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	5
589 Baker St.	V1L 6A3	Nelson	Power By you	Canada	3
589 Baker St.	V1L 6A3	Nelson	Power By you	Canada	5
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	1
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	2
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	3
6000 Student Union Blvd	V6T 1Z1	Vancouver	BirdCoop Fitness Centre	Canada	5

Queries: Aggregation with Group By

Before clicking ‘Compute Number of Gyms per Country’

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Joint Table: Gyms, PCC, and User

Add Gym Compute Number of Gyms per Country Find Users Attending all Gyms

JOIN WHERE Address =

Address	Postal Code	City	Name	Country	UserID
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	3
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	5
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	3
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	5
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1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	5
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	3
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	5
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	3
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	4
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	5
3615 West 17th Avenue	V6S 1A3	Vancouver	Kylee T Dyck	Canada	1

After clicking 'Compute Number of Gyms per Country'

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Number of Gyms Per Country

Country	Number of Gyms
United States	2
Mexico	1
Canada	5

Query - Aggregation with Having

Before clicking 'Find Count' after typing 20 in the text box

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Profile: Users and Measurements

Add User | Compute users with average BMI < overall average BMI

COUNT USERS HAVING BMI > 20 | Find Count

User ID	Name	Height	Weight	BMI
1	Kylee	0	0	25
1	Kylee	175	60	18
1	Kylee	175	60	19.6
1	Kylee	175	65	25
1	Kylee	176	65	20
2	Jon	188	75	21.2
3	Kashish	153	64	27.3
4	Mickey	202	92	22.5
5	Naruto	166	49	17.8
5	Naruto	175	60	30

After clicking 'Find Count'

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Count of Users having BMI over 20 is: 5

Query - Nested Aggregation with Group By

Before clicking 'Compute users with average BMI < overall average BMI'

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Profile: Users and Measurements

Add User | Compute users with average BMI < overall average BMI

COUNT USERS HAVING BMI > Enter BMI value Find Count

UserID	Name	Height	Weight	BMI
1	Kylee	0	0	25
1	Kylee	175	60	18
1	Kylee	175	60	19.6
1	Kylee	175	65	25
1	Kylee	176	65	20
2	Jon	188	75	21.2
3	Kashish	153	64	27.3
4	Mickey	202	92	22.5
5	Naruto	166	49	17.8
5	Naruto	175	60	30

After clicking 'Compute users with average BMI < overall average BMI'

Users with average BMI < overall average BMI

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UserID	Name	Average
3	Kashish	14.65

Overall Average of BMIs: 20.58

Query - Division

Before clicking 'Find Users Attending all Gyms'

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Joint Table: Gyms, PCC, and User

[Add Gym](#) [Compute Number of Gyms per Country](#) [Find Users Attending all Gyms](#)

JOIN WHERE =

Address	Postal Code	City	Name	Country	UserID
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	3
06720 Ciudad de Mexico	J3T 1C9	Mexico City	Extasis Gym	Mexico	5
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	3
1121 Ironwood St	V9W 5L6	Campbell River	West Coast Muscle and Fitness	Canada	5
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	3
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	4
1350 Manufacturing St Suite 204	75207	Dallas	Hunger in the Wild Gym	United States	5
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	3
206 Lakeside Dr	V1L 6B9	Nelson	Maverick Strength	Canada	5
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	3
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	4
3407 Guadalupe St	78705	Austin	Anytime Fitness	United States	5
509 Baker St.	V1L 6A3	Nelson	Power By you	Canada	3

After clicking 'Find Users Attending all Gyms'

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All Users Who Attend All Gyms

UserID	Name
5	Naruto
3	Kashish

- README

Please refer to README.txt in our github repository.