Ox00. MySQL advanced



Weight: 1

Projects(/projects/current)

₱ Project over - took place from Jul 10, 2024 6:00 AM to Jul 12, 2024 6:00 AM

An auto **CPA** i Previebres alvo a me that the flow or lieue tions / to review)

Evaluation quizzes(/dashboards/my current evaluation quizzes) In a nutshell...

Auto QA review: 43.2/53 mandatory & 5.2/8 optional

盲

Altogether: 134.49%

Curriculums(/dashboards/my_curriculums)

Optional: 65.0%

Calculation: 81.51% + (81.51% * 65.0%) == 134.49% Concepts(/concepts)

Conference rooms(/dashboards/video_rooms) Concepts

🚟 or this இருச்சூ (Accexpes)t you to look at this concept:

Advanced SQL (/concepts/555)

Sandboxes(/user_containers/current)

Tools(/dashboards/my_tools)

Resources

ead or Wighton demand(/dashboards/videos)

- MySQL cheatsheet (/rltoken/8w9di hk19DIMSBEV3EayQ)
- MySQL Performance: How To Leverage MySQL Database Indexing (/rltoken/2GJbZ48zRPA70o2YhTdH7g)

- Peers//users/peers)
 Stored Procedure (/ritoken/K180X2OCzb6gzPngjn-Elg)
- Triggers (/rltoken/cJ1qA4o-rRm4rWlsqYKSZg)

Views (/rltoken/vHg1z3UAOcWMvOt8xZHeiA) Discord(https://discord.com/app)
 Functions and Operators (/rltoken/g-c1m6iljScpi4LeqxBRqQ)

- Trigger Syntax and Examples (/rltoken/gLVwKjQfRL0Jr nWqAS7VQ)
- CREATE TABLE Statement (/rltoken/X789nJ22H6HVh1uCQPl0lg)
- CREATE PROCEDURE and CREATE FUNCTION Statements (/rltoken/mfrWMt1KL3NHXblJykl
- CREATE INDEX Statement (/rltoken/oCu8Rg9WfKyF4BhTt8dZGQ)
- CRAEAPEOVIEW Steatement (of ite)ken/FEZNIZFKZmD1ISnLINkCwQ)





_earning Objectives

At the end of this project, you are expected to be able to explain to anyone (/ritoken/NEA0Fr7muHfukl5lziVAhg), without the help of Google:

General Home(/)



- How to create tables with constraints
- HowtBlanning/planning/meadding indexes
- · What is and how to implement stored procedures and functions in MySQL
- What is and how to implement views in MySQL
- What is and how to implement triggers in MySQL

Requirements (/corrections/to_review)

General Genera

- All your files will be executed on Ubuntu 18.04 LTS using MySQL 5.7 (version 5.7.30)
- Aii your files should end with a new line
- All your SQL queries should have a comment just before (i.e. syntax above)



- Al Curnic filles should should be task
 - All SQL keywords should be in uppercase (SELECT, WHERE ...)
- A README.md file, at the root of the folder of the project, is mandatory
- Concepts(/concepts)
 The length of your files will be tested using wc

Oren refreerooms(/dashboards/video_rooms)

somments for your SQL file:

\$ cat my_script.sql

-- 3 fsiandboxes/ruses containers/current 3

- because Batch 3 is the best!

SELECT id, name FROM students WHERE batch_id = 3 ORDER BY created_at DESC LIMIT



Tools(/dashboards/my tools)

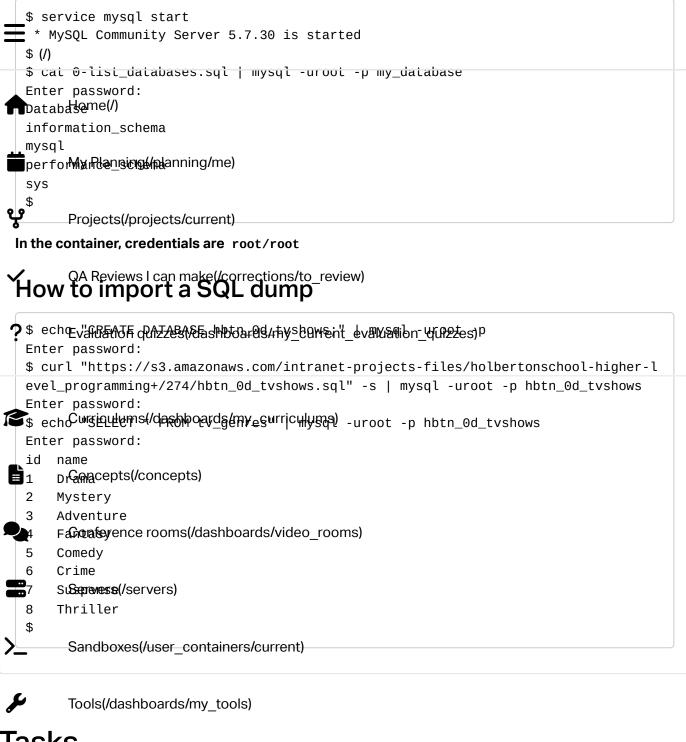
se "Video on demand(/dashboards/videos)" to run MySQL

- Ask for container Ubuntu 18.04 Python 3.7
- Connect via SSH



- OrPveientst (éulstéerle/Trece en iss)al
- In the container, you should start MySQL before playing with it:
- **6**

Discord(https://discord.com/app)



Ţąsks

Video on demand(/dashboards/videos)

0. We are all unique!

mandatory

Score: 100.0% (Checks completed: 100.0%)

Write a SQL script that creates a table users following these requirements:

(Q)

Discord(https://discord.com/app)

- With these attributes:
 - o id, integer, never null, auto increment and primary key
 - email, string (255 characters), never null and unique
 - name , string (255 characters)
- If the table already exists, your script should not fail
- Your script carrier executed on any database

Context: Make an attribute unique directly in the table schema will enforced your business rules and _avoid bugs in your application bob@dylan:~\$ echo "SELECT * FROM users;" | mysql -uroot -p holberton Enter password: 🛖 ERROR ዘሷቀጭ (ሰ42S02) at line 1: Table 'holberton.users' doesn't exist bob@dylan:~\$ bob@dylan:~\$ cat 0-uniq_users.sql | mysql -uroot -p holberton Enter Ma ጮሎ (/planning/me) bob@dylan:~\$ bob@dylan:~\$ echo 'INSERT INTO users (email, name) VALUES ("bob@dylan.com", "Bo **\P**b"); ' Proffects / proffects / current berton Enter password: bob@dylan:~\$ echo 'INSERT INTO users (email, name) VALUES ("sylvie@dylan.com", "S /ylvie"da Reviews9ban4hake(/cBr/ections/to review) Enter password: bob@dylan:~\$ echo 'INSERT INTO users (email, name) VALUES ("bob@dylan.com", "Jea ? n"); ' L mysql -uroot p holberton Evaluation quizzes(/dashboards/my_current_evaluation_quizzes) Enter password: ERROR 1062 (23000) at line 1: Duplicate entry 'bob@dylan.com' for key 'email' bob@dylan:~\$ bob@dylan:~\$ echo "SELECT * FROM users;" | mysql -uroot -p holberton 🚰 Enter 🗘 மொள்கையின் மிக்கும் (/dashboards/my_curriculums) id email name bob@dylan.com Bob **1**2 syclomic@dts(Acroncompts) Sylvie bob@dylan:~\$ Conference rooms(/dashboards/video_rooms) Repo: Gilletiber (Seiturys) alx-backend-storage • Directory: 0x00-MyS0L Advanced File: 0-uniq_users.sql Sandboxes(/user_containers/current) View results 1. In and not out mandatory 用

Video on demand(/dashboards/videos)

Score: 100.0% (Checks completed: 100.0%)

Write a SQL script that creates a table users following these requirements: Peers(/users/peers)

With these attributes:

 $\mathbf{\omega}$

o id, integer, never null, auto increment and primary key

Discord https://discord.com/accors), never null and unique

- name , string (255 characters)
- o country, enumeration of countries: US, CO and TN, never null (= default will be the firs element of the enumeration, here US)
- If the table already exists, your script should not fail
- YoMiysPortite(Aurstoresebre)cuttendriben any database

bob@dylan:~\$ echo "SELECT * FROM users;" | mysql -uroot -p holberton Enter password: ERROR 1146 (42S02) at line 1: Table 'holberton.users' doesn't exist bob@dylan.~\$ bob@dylan:~\$ cat 1-country_users.sql | mysql -uroot -p holberton Thenter Harse Word: bob@dylan:~\$ bob@dylan:~\$ echo 'INSERT INTO users (email, name, country) VALUES ("bob@dylan.co m", "เ**ห่ง**เห**่าไลเทเดูเราซู(/plannings/กูกะ)**-uroot -p holberton Enter password: bob@dylan:~\$ echo 'INSERT INTO users (email, name, country) VALUES ("sylvie@dyla n.com'Projesyts/pedjects/current) mysql -uroot -p holberton Enter password: bob@dylan:~\$ echo 'INSERT INTO users (email, name, country) VALUES ("jean@dylan.c ✓om", 'QARetviewer'can'maken/sortrectiones/to previewer to n Enter password: ERROR 1265 (01000) at line 1: Data truncated for column 'country' at row 1 🤁 bob@dyElænuaton quizzes(/dashboards/my_current_evaluation_quizzes) bob@dylan:~\$ echo 'INSERT INTO users (email, name) VALUES ("john@dylan.com", "Joh n");' | mysql -uroot -p holberton Enter password: bob@dylan:~\$ Spop@dylan: Speciformy Gurriculums) | mysgl -uroot -p holberton Enter password: id email name country b & Backetts (Concepts) us sylvie@dylan.com Sylvie CO john@dylan.com John US _pob@dyQanference rooms(/dashboards/video_rooms) Servers(/servers) Repo: • GitHub repository: alx-backend-storage Sandboxes(/user_containers/current)

• Directory: 0x00-MySQL_Advanced • File: 1-country_users.sql Tools(/dashboards/my tools) Check submission >_ Get a sandbox View results 田 Video on demand(/dashboards/videos) Best band ever! mandatory

Score: 100.0% (*Checks completed: 100.0%*)
Peers(/users/peers)

Write a SQL script that ranks country origins of bands, ordered by the number of (non-unique) fans

quire his ford (https://discord.com/app)

• Import this table dump: metal_bands.sql.zip (/rltoken/uPn947gnZLaa0FJrrAFTGQ)



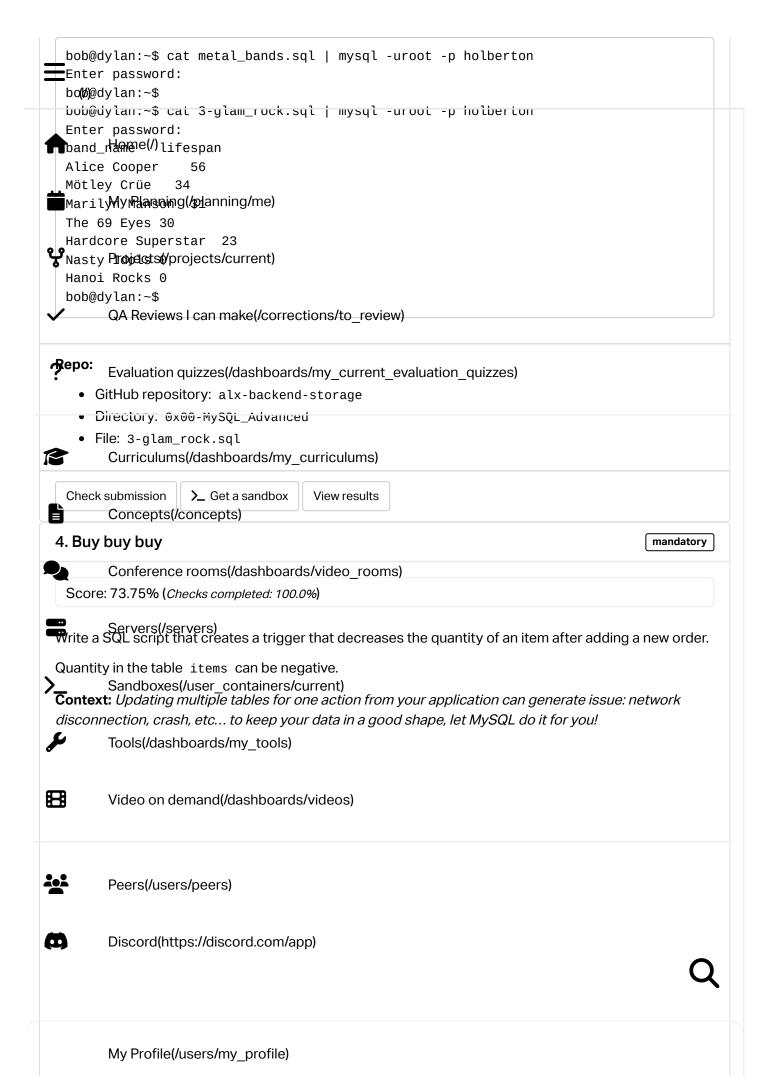
Column names must be: origin and nb_fans

Your script can be executed on any database

Context: Calculate/Compute something is always power intensive... better to distribute the load!

bob@dylan:~\$ cat metal_bands.sql | mysql -uroot -p holberton $\overline{\pm}$ Enter password: bo(b)@dylan:~\$ bob@dylan:~\$ cat 2-fans.sql | mysql -uroot -p holberton > tmp_res ; head tmp_res Enter password: **m**originHome(舟ans USA 99349 Sweden 47169 FinlarMy \$2@78ing(/planning/me) United Kingdom 32518 Germany 29486 Norway Projects/projects/current) Canada 8874 The Netherlands 8819 ✓ Italy QA Rev8ews I can make(/corrections/to review) bob@dylan:~\$? Evaluation quizzes(/dashboards/my current evaluation quizzes) Repo: • GitHub repository: alx-backend-storage Directory Infragration Directory of the Directory of • File: 2-fans.sql Concepts(/concepts) Check submission >_ Get a sandbox View results Old school band (/dashboards/video_rooms) mandatory Score: \$6.76%((54645)ompleted: 100.0%) Write a SQL script that lists all bands with Glam rock as their main style, ranked by their longevity Sandboxes(/user_containers/current) **Requirements:** • Import this table dump: metal bands.sql.zip (/rltoken/uPn947gnZLaa0FJrrAFTGQ) Column names must be: band_name and lifespan (in years until 2022 - please use 2022 instead of YEAR(CURDATE())) ■ YoVidhound deen and hold teeth broam tead violetoes) plit for computing the lifespan Your script can be executed on any database Peers(/users/peers) Ø Discord(https://discord.com/app)

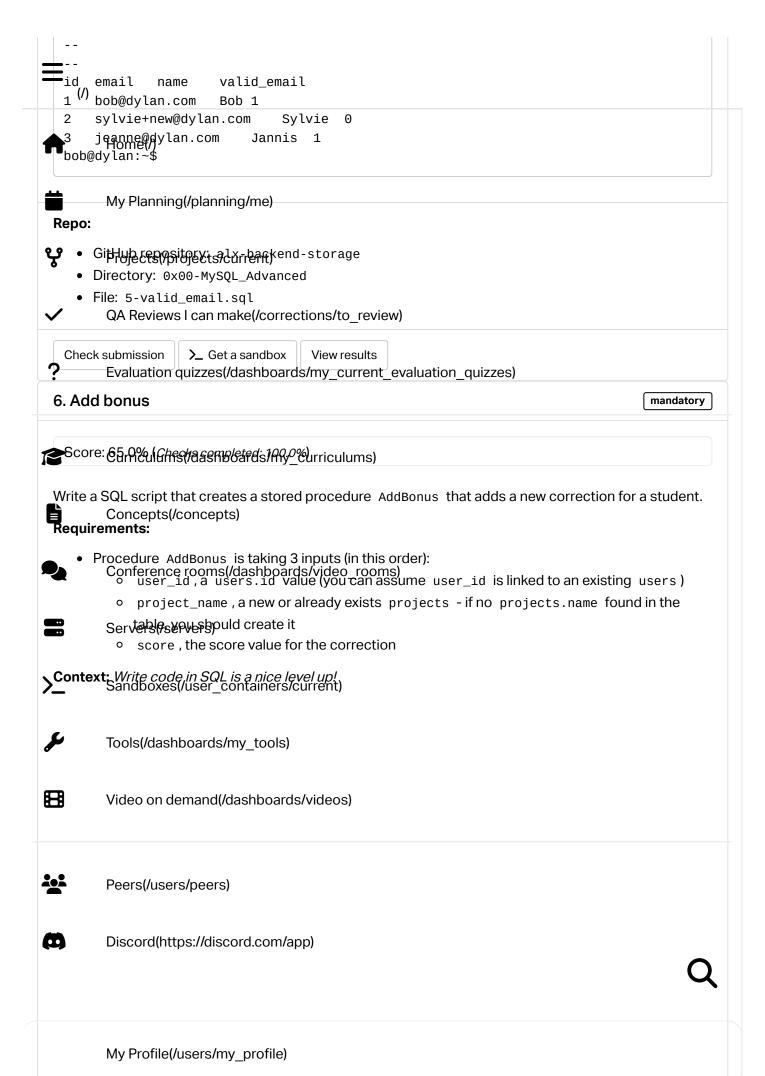
My Profile(/users/my_profile)



```
bob@dylan:~$ cat 4-init.sql
🛨-- Initial
  DR(O)P TABLE IF EXISTS items;
   DROP TABLE IF EXISTS orders;
ਜ਼ਿcreate ੀ•ਾਂਸ਼ੇਈਈ IF NOT EXISTS items (
       name VARCHAR(255) NOT NULL,
       quantity int NOT NULL DEFAULT 10
        My Planning(/planning/me)
 );
   CREATE TABLE IF NOT EXISTS orders (
       itProjects/pvajecta/c/ursent) NOT NULL,
       number int NOT NULL
         QA Reviews I can make(/corrections/to_review)
   INSERT INTO items (name) VALUES ("apple"), ("pineapple"), ("pear");
 🤁 bob@dyElvanuatSon quizzes(/dashboards/my_current_evaluation_quizzes)
   bob@dylan:~$ cat 4-init.sql | mysql -uroot -p holberton
   Enter password:
   bob@dylan:~$
  bob@dylan:~$ cat 4-store.sql | mysql -uroot -p holberton
Enter Curriculums (/dashboards/my_curriculums)
   bob@dylan:~$
   bob@dylan:~$ cat 4-main.sql
Enter Concepts (/concepts)
   -- Show and add orders
   SELECT * FROM items;
 SELECTCON TEXT ONCE IT OF PROPERTY (/dashboards/video_rooms)
  INSERT INTO orders (item_name, number) VALUES ('apple', 1);
INSER Senvers (selevers)(item_name, number) VALUES ('apple', 3);
   INSERT INTO orders (item_name, number) VALUES ('pear', 2);
_selec Sandboxes(/user_containers/current)
   SELECT * FROM items;
 SELECTTo to 1.56 (1800) and 1811 to ols)
   bob@dylan:~$
bob@dyvialeorsn detnanavolaskandardsolyiotelos)uroot -p holberton
   Enter password:
   name
           quantity
   apple
           10
   pineapple
  pear Peers (/users/peers)
name Discord(https://discord.com/app)
   apple
   pineapple
                10
   pear
   item_name
                number
   apple
   apple My Profile(/users/my_profile)
```

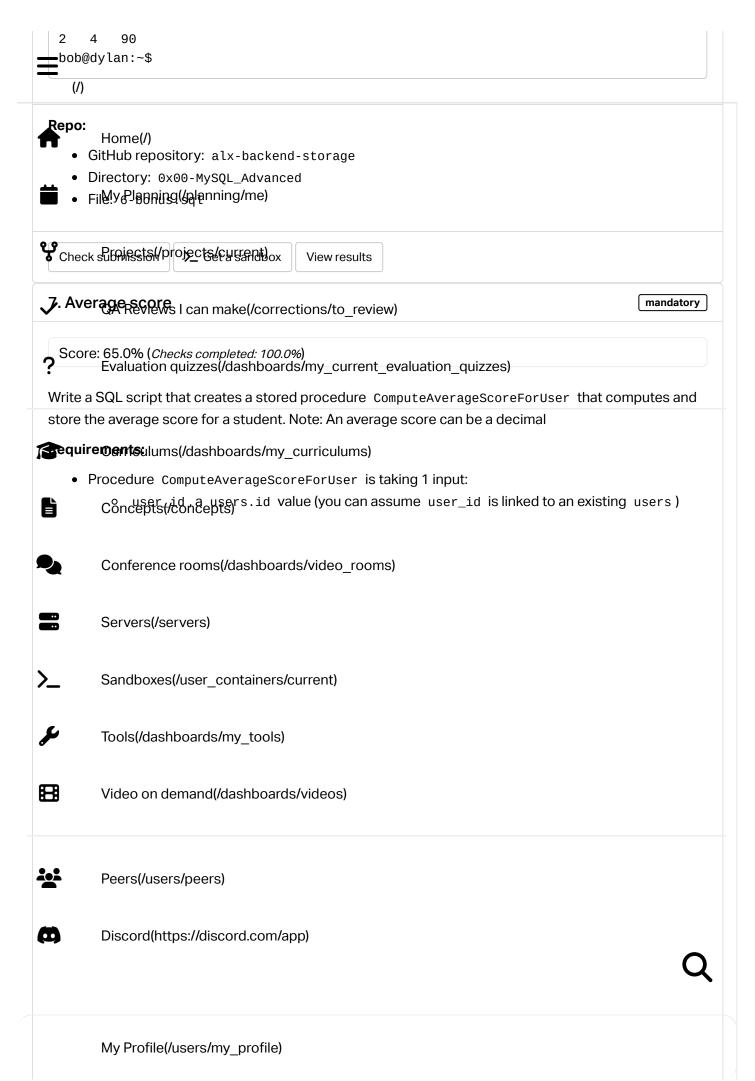


```
bob@dylan:~$ cat 5-init.sql
  -- Initial
  DR(Ø)P TABLE IF EXISTS users;
  CREATE TABLE IF NOT EXISTS users (
      idHqme(Mot null AUTO_INCREMENT,
      email varchar(255) not null,
      name varchar(255),
      vally default 0,
      PRIMARY KEY (id)
        Projects(/projects/current)
  INSERT INTO users (email, name) VALUES ("bob@dylan.com", "Bob");
  INSERT INTO users (email, name, valid_email) VALUES ("sylvie@dylan.com", "Sylvi
✓e", 1 QA Reviews I can make(/corrections/to_review)
  INSERT INTO users (email, name, valid_email) VALUES ("jeanne@dylan.com", "Jeann
  e", 1);
        Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)
  bob@dvlan:~$
  bob@dylan:~$ cat 5-init.sql | mysql -uroot -p holberton
  Enter password:
  bob@dylan:~$
bob@dyGurricylums(/dashboards/my_cyrricylums) - uroot -p holberton
  Enter password:
  bob@dylan:~$
bob@d Gancests/Leonsentsh.sql
  Enter password:
   -- Show users and update (or not) email
PBELECTConfet@исвзерыз (/dashboards/video_rooms)
  UPDATE users SET valid_email = 1 WHERE email = "bob@dylan.com";
➡updatြSqry@f§(/s@rveकail = "sylvie+new@dylan.com" WHERE email = "sylvie@dylan.com";
  UPDATE users SET name = "Jannis" WHERE email = "jeanne@dylan.com";
>_selec Sandboxes(/user_containers/current)
  SELECT * FROM users;
 ⊮UPDATETowskýďsaShĐoændsi⁄nhy=töbos)@dylan.com" WHERE email = "bob@dylan.com";
  SELECT "--";
SELECTViðe 6ROM de spears d (/dashboards/videos)
  bob@dylan:~$
  bob@dylan:~$ cat 5-main.sql | mysql -uroot -p holberton
  Enter password:
      email/users/peers
      bob@dylan.com
                       Bob 0
       sylvie@dylan.com
                           Sylvie 1
\mathbf{\omega}_3
      jeliscord.com/app)1
      email
  id
               name
                       valid email
  1
      bob@dylan.com
                       Bob 1
  2
      sylvie+new@dylan.com
                               Sylvie 0
      jednipelareralmy_pratilels 1
```



```
bob@dylan:~$ cat 6-init.sql
  -- Initial
  DROP TABLE IF EXISTS corrections;
   DROP TABLE IF EXISTS users;
   DROP TABLE IF EXISTS projects;
         Home(/)
   CREATE TABLE IF NOT EXISTS users (
       id int not null AUTO_INCREMENT,
       naMy Rhamaingn/phasaningdomenull,
       average_score float default 0,
       PRIMARY KEY (id)
જુ);
         Projects(/projects/current)
   CREATE TABLE IF NOT EXISTS projects (
       idQAnReviewshicah nAlarke(/cNorecntents/to review)
       name varchar(255) not null,
       PRIMARY KEY (id)
 ?);
         Evaluation quizzes(/dashboards/my current evaluation quizzes)
   CREATE TABLE IF NOT EXISTS corrections (
       user_id int not null,
       project_id int not null,
       score Thums(/dashboards/my_curriculums)
KEY `user_id` (`user_id`),
       KEY `project_id` (`project_id`),
CONSTRAINS/CONCEPTS) id FOREIGN KEY (`user_id`) REFERENCES `users` (`id`) ON DE
   LETE CASCADE,
       CONSTRAINT fk_project_id FOREIGN KEY (`project_id`) REFERENCES `projects` (`i
 全1`) ONCOPETET PECE ( SONDET / dashboards / video_rooms)
   );
=inserSenveosVserver$hame) VALUES ("Bob");
   SET @user_bob = LAST_INSERT_ID();
LINSERTS and tookes (Auserne no entainmens less interpretanne");
   SET @user_jeanne = LAST_INSERT_ID();
JUNSERTTO DNS (Ødastobjæstobs/tronanter) | JUNSERTTO DNS (Ødastobjæstobs/tronanter) | JUNSERTTO DNS (Ødastobjæstobs/tronanter)
   SET @project_c = LAST_INSERT_ID();
INSERT/问题50mpdejneats(/dasmedaNAS/VESeos)Python is cool");
   SET @project_py = LAST_INSERT_ID();
INSERT INTO corrections (user_id, project_id, score) VALUES (@user_bob, @project_
  c, 80 Peers(/users/peers)
   INSERT INTO corrections (user_id, project_id, score) VALUES (@user_bob, @project_
   py, 96);
         Discord(https://discord.com/app)
   INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proj
   ct_c, 91);
   INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proje
  ct_py, 73);
   bob@dyMynProfile(/users/my_profile)
```

```
bob@dylan:~$ cat 6-init.sql | mysql -uroot -p holberton
  Enter password:
  bob@dylan:~$
   bob@dylan:~$ cat 6-bonus.sql | mysql -uroot -p holberton
   Enter password:
hob@dylan: $
bob@dylan:~$ cat 6-main.sql
   Enter password:
 -- Show and add bonus correction
My Planning(/planning/me)
SELECT * FROM projects;
   SELECT * FROM corrections;
Projects(/projects/current)
  CALL AddBonus((SELECT id FROM users WHERE name = "Jeanne"), "Python is cool", 10, QA Reviews I can make(/corrections/to_review)
CALL AddBonus((SELECT id FROM users WHERE name = "Jeanne"), Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)
                                                                              "Bonus project", 10
   CALL AddBonus((SELECT id FROM users WHERE name = "Bob"), "Bonus project", 10);
   CALL AddBonus((SELECT id FROM users WHERE name = "Jeanne"), "New bonus", 90);
          Curriculums(/dashboards/my_curriculums)
   SELECT "--";
SELECTO on EBOYS (Proniceptis)
   SELECT * FROM corrections;
 bob@dylan;~$
bob@dylan:~$ cat 6-main.sql | mysql -uroot -p holberton
   Enter password:
id name
Servers(/servers)
        C is fun
        Python is cool
  user_id project_id score
Sandboxes(/user_containers/current)
1 1 80
        2
             96
        1 91
2 Tools(/dashboards/my_tools)
Video on demand(/dashboards/videos)
  Ξű
        ñáilie
        C is fun
   1
        Pytholis (/tisefs/pleers)
        Bonus project
        New bonus
wser-idiscording in discord com/app)
             80
   1
        1
        2
   1
             96
   2
        1
             91
   2
        2
             73
   2
             100
   2
        ^3 My ^{100} file(/users/my_profile)
   1
```



```
bob@dylan:~$ cat 7-init.sql
  -- Initial
  DROP TABLE IF EXISTS corrections;
   DROP TABLE IF EXISTS users;
   DROP TABLE IF EXISTS projects;
         Home(/)
   CREATE TABLE IF NOT EXISTS users (
       id int not null AUTO_INCREMENT,
       naMy Rhamaingn/phasaningdomenull,
       average_score float default 0,
       PRIMARY KEY (id)
જુ);
         Projects(/projects/current)
   CREATE TABLE IF NOT EXISTS projects (
       idQAnReviewshicah nAlarke(/cNorecntents/to review)
       name varchar(255) not null,
       PRIMARY KEY (id)
 ?);
         Evaluation quizzes(/dashboards/my current evaluation quizzes)
   CREATE TABLE IF NOT EXISTS corrections (
       user_id int not null,
       project_id int not null,
       score Thums(/dashboards/my_curriculums)
KEY `user_id` (`user_id`),
       KEY `project_id` (`project_id`),
CONSTRAINS/CONCEPTS) id FOREIGN KEY (`user_id`) REFERENCES `users` (`id`) ON DE
   LETE CASCADE,
       CONSTRAINT fk_project_id FOREIGN KEY (`project_id`) REFERENCES `projects` (`i
 全1`) ONCOPETET PECE ( SONDET / dashboards / video_rooms)
   );
=inserSenveosVserver$hame) VALUES ("Bob");
   SET @user_bob = LAST_INSERT_ID();
LINSERTS and tookes (Auserne no entainmens less interpretanne");
   SET @user_jeanne = LAST_INSERT_ID();
JUNSERTTO DNS (Ødastobjæstobs/tronanter) | JUNSERTTO DNS (Ødastobjæstobs/tronanter) | JUNSERTTO DNS (Ødastobjæstobs/tronanter)
   SET @project_c = LAST_INSERT_ID();
INSERT/问题50mpdejneats(/dasmedaNAS/VESeos)Python is cool");
   SET @project_py = LAST_INSERT_ID();
INSERT INTO corrections (user_id, project_id, score) VALUES (@user_bob, @project_
  c, 80 Peers(/users/peers)
   INSERT INTO corrections (user_id, project_id, score) VALUES (@user_bob, @project_
   py, 96);
         Discord(https://discord.com/app)
   INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proj
   ct_c, 91);
   INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proje
  ct_py, 73);
   bob@dyMynProfile(/users/my_profile)
```

```
bob@dylan:~$ cat 7-init.sql | mysql -uroot -p holberton
  •Enter password:
  bob@dylan:~$
   bob@dylan:~$ cat 7-average_score.sql | mysql -uroot -p holberton
   Enter password:
  bob@dylan:-7$
bob@dylan:~$ cat 7-main.sql
   -- Show and compute average score
 SELECT * FROM users;
My Planning(/planning/me)
SELECT * FROM corrections;
SELECT "--":
Projects/current)
CALL ComputeAverageScoreForUser((SELECT id FROM users WHERE name = "Jeanne"));
  SELECT * FROM USER'S;
bob@dylan:~$
 bob@dvEvaluation quizzes(/dashboards/my_current_evaluation_quizzes)
   Enter password:
  id name
                 average_score
       Bob 0
       Jeun culums (/dashboards/my_curriculums)
   user_id project_id score
            80
       <sup>2</sup> Concepts(/concepts)
            91
   2
       2
            73
         Conference rooms(/dashboards/video_rooms)
         Servers(/servers)
ame average_score
   1
       Bob 0
  2 Jeanne 82
Sandboxes(/user_containers/current)
bob@dylan:~$
         Tools(/dashboards/my_tools)
 Repo:

    GitHub repository; all shackend storage

    Directory: 0x00-MySQL_Advanced

     File: 7-average_score.sql
   View results
Optimizeosimple: searchd.com/app)
                                                                                           mandatory
   Score: 65.0% (Checks completed: 100.0%)
 Write a SQL script that creates an index idx_name_first on the table names and the first letter of
  name. My Profile(/users/my_profile)
```

Requirements:

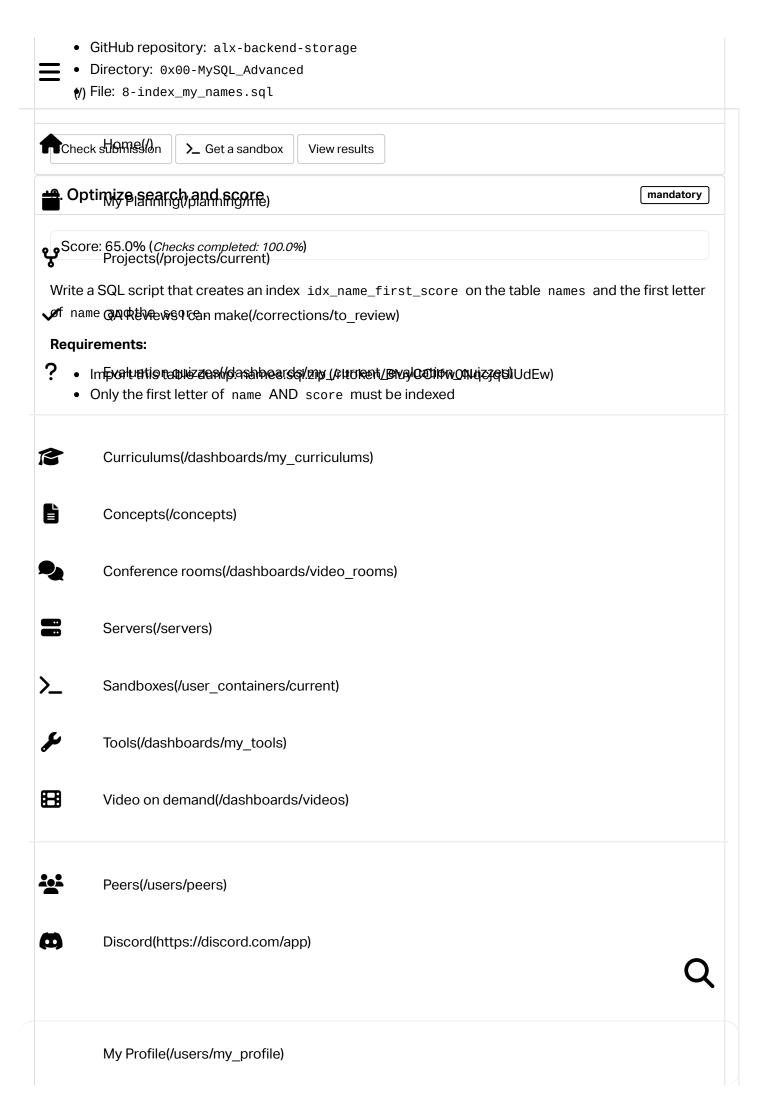


• Import this table dump: names.sql.zip (/rltoken/BluyCCllfw0NqcjqUiUdEw)

(1) Only the first letter of name must be indexed

```
Context: Index is not the solution for any performance issue, but well used, it's really powerful!
      Home(/)
  bob@dylan:~$ cat names.sql | mysql -uroot -p holberton
  Enter password:
 bob@dyMynPlagning(/planning/me)
  bob@dylan:~$ mysql -uroot -p holberton
  Enter password:
∰mysql≯rspieucis/pcojercis/name)nt)ROM names WHERE name LIKE 'a%';
  +----+
  | COUNT(name) |
 +----QA Reviews I can make(/corrections/to_review)
        302936 I
🤁 1 row Evalusetton( മുപിഷ്ടാക്ക് മിക്കിക്കെ pards/my current evaluation quizzes)
  mysql>
  mysql> exit
  bye
  _bob@dylan:~$
bob@dyGurriculums(/dashboards/my_curriculums)mysql -uroot -p holberton
  Enter password:
  bob@dylan:~$
bob@d Gancests (concepts) ot -p holberton
  Enter password:
  mysql> SHOW index FROM names;
 Conference rooms((dashboards/video_rooms)_____+
         ----+
  | Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation |
 cardin&@[Y@ys(/s@fW@_part | Packed | Null | Index_type | Comment | Index_comment |
  __| nameSandboxes(/user<u>1</u>copntalia_ena/loe_rfeint}t |
                                            1 | name
                                                          | A
           1 | NULL | YES | BTREE | | | | | |
 1 row in set (0.00 sec)
  mysql>
mysql>viglebeotologowahtologowahtologoshboososhboosos)Where name like 'a%';
  +----+
  | COUNT(name) |
       302936 I
  Peers(/users/peers)
  1 row in set (0.82 sec)
  mvsal>
mysql Diεχοτα(https://discord.com/app)
  bob@dylan:~$
```

Repo: My Profile(/users/my_profile)

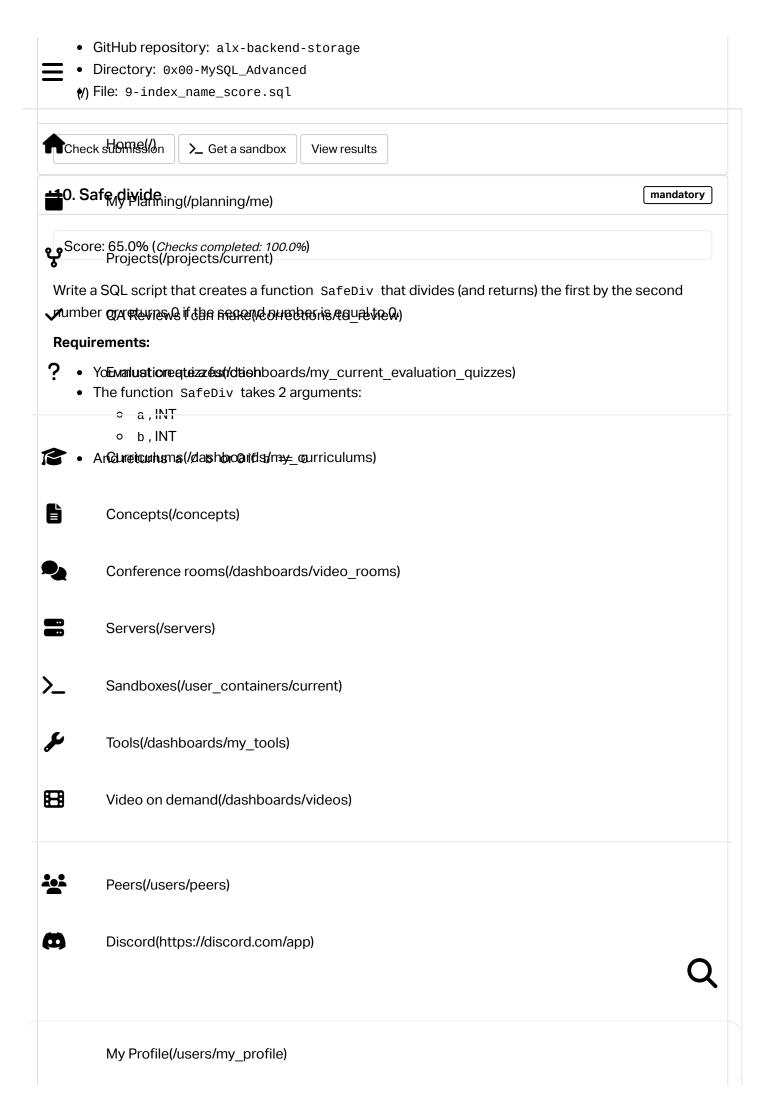


```
bob@dylan:~$ cat names.sql | mysql -uroot -p holberton
\overline{\pm}Enter password:
 bo(b)@dylan:~$
 bob@dylan:~$ mysql -uroot -p holberton
 Enter password:
ெள்ளு and score < 80; makes where name like 'a%' AND score < 80;
  | count(name) |
 +--- My Planning(/planning/me)
       60717 |
  +----+
🗣 1 row Pinojesets(/pizojesets/ecu)rrent)
 mysql>
 mysql> exit

✓ bye QA Reviews I can make(/corrections/to review)

 bob@dylan:~$
 bob@dylan:~$ cat 9-index_name_score.sql | mysql -uroot -p holberton
? Enter 🕰 នាង 🕅 quizzes(/dashboards/my_current_evaluation_quizzes)
 bob@dvlan:~$
 bob@dylan:~$ mysql -uroot -p holberton
 Enter password:
 mysql> SHOW index FROM names;
Curriculums(/dashbpards/my_curriculums)
      | Tab Concepts (Gangepts) | Key_name | Seq_in_index | Column_name | Collat
 ion | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comme
 nameServers(/servers) | idx_name_first_score |
                                            1 | name
                   1 | NULL | YES | BTREE |
          25 |
               1 | idx_name_first_score |
                                            2 | score
  | names |
 _| Sand&gooxes(/user_popontaipens/courrent)yes | btree
                                        ---+ Tools(/dashboards/my tools)
 2 rows in set (0.00 sec)
 mysql>
∰mysql≯/i<mark>@EbEGTd@0NUNTd(Motaush)b&BQNs/pipt</mark>eess)WHERE name LIKE 'a%' AND score < 80;
  +----+
  | COUNT(name) |
  +----+
      60717 |
  Peers(/users/peers)
 1 row in set (0.48 sec)
 mysql>
bye
 bob@dylan:~$
```

Repo: My Profile(/users/my_profile)



```
bob@dylan:~$ cat 10-init.sql
<del>_</del>-- Initial
  DROP TABLE IF EXISTS numbers;
  CREATE TABLE IF NOT EXISTS numbers (
       a Home We fault o,
       b int default 0
        My Planning(/planning/me)
  INSERT INTO numbers (a, b) VALUES (10, 2);
  INSERT INTO numbers (a, b) VALUES (4, 5);
Inser Promerous (/omojenosts/courren)t) values (2, 3);
  INSERT INTO numbers (a, b) VALUES (6, 3);
  INSERT INTO numbers (a, b) VALUES (7, 0);
✓ INSERTQAINTOU/jouwishlocas makeb/com/additoons/fo newishlocas
  bob@dylan:~$ cat 10-init.sql | mysql -uroot -p holberton
? Enter 🕰 នាង 🕅 quizzes(/dashboards/my_current_evaluation_quizzes)
  bob@dvlan:~$
  bob@dylan:~$ cat 10-div.sql | mysql -uroot -p holberton
  Enter password:
  bob@dylan:~$
bob@d\Gurricylums(/dashboards/my/cyrricylyms) | mysql -uroot -p holberton
  Enter password:
(a / b)
5.000 Concepts (/concepts)
  0.8000
  0.6667
 NULL
  0.7500
bob@dyStervers)
  bob@dylan:~$ echo "SELECT SafeDiv(a, b) FROM numbers;" | mysql -uroot -p holberto
  n
__Enter Spans showers (/user_containers/current)
  SafeDiv(a, b)
№0.8000000013(10)23(19)29(20) ards/my tools)
  0.6666666865348816
  2
Video on demand(/dashboards/videos)
  0.75
  bob@dylan:~$
        Peers(/users/peers)
 Repo:
```

GitHub repository: alx-backend-storage Discord(https://discord.com/app)

Directory: 0x00-MySQL_Advanced

• File: 10-div.sql

Check submission >_ Get a sandbox View results My Profile(/users/my_profile)

```
bob@dylan:~$ cat 11-init.sql
 <del>_</del>-- Initial
      DROP TABLE IF EXISTS students;
      CREATE TABLE IF NOT EXISTS students (
                natife MARCHAR (255) NOT NULL,
                 score INT default 0,
                 last_meeting DATE NULL
                    My Planning(/planning/me)
   );
      INSERT INTO students (name, score) VALUES ("Bob", 80);
 nserProments∜pudjents/curamet) score) VALUES ("Sylvia", 120);
      INSERT INTO students (name, score) VALUES ("Jean", 60);
      INSERT INTO students (name, score) VALUES ("Steeve", 50);
 ✓ INSERTQANRED/iest/sd coatsmelke(//eor/scotion)s/t/ALI/defe/(///Camilia", 80);
      INSERT INTO students (name, score) VALUES ("Alexa", 130);
  ? bob@dyElænuatfonatuiztzest/otetshbobardsningqdurnentoevalouatiotberutzzes)
      Enter password:
      bob@dylan:~$
      bob@dylan:~$ cat 11-need_meeting.sql | mysql -uroot -p holberton
      Enter password:
Fob@dy Gurriculums (/dashboards/my_curriculums)
      bob@dylan:~$ cat 11-main.sql
       -- Test view
 SELECT ConfeRATA (Kearcents Ling;
      SELECT "--";
                    Conference rooms(/dashboards/video_rooms)
      UPDATE students SET score = 40 WHERE name = 'Bob';
      SELECT * FROM need_meeting;
                    Servers(/servers)
      SELECT "--";
_updateSandolowats(/user_sontainers/current name = 'Steeve';
      SELECT * FROM need_meeting;
 ₽SELECToble(/dashboards/my tools)
      UPDATE students SET last_meeting = CURDATE() WHERE name = 'Jean';
SELECTViðe 6 ROM de neah dom d
      SELECT "--";
UPDATE students SET last_meeting = ADDDATE(CURDATE(), INTERVAL -2 MONTH) WHERE na Peers(/users/peers)
     me = Peers(/users/peers)
      SELECT * FROM need_meeting;
SELEC Discord(https://discord.com/app)
      SHOW CREATE TABLE need_meeting;
     SELECT "--";
      SHOW CAKE Prefile (Ausers (Myentofile)
```

```
-bob@dylan:~$
  •bob@dylan:~$ cat 11-main.sql | mysql -uroot -p holberton
   Enter password:
   name
   Jean Home(/)
   Steeve
          My Planning(/planning/me)
   name
   Bob
Jean
          Projects(/projects/current)
   Steeve
          QA Reviews I can make(/corrections/to_review)
   name
   Bob
   Jean
          Evaluation quizzes(/dashboards/my current evaluation quizzes)
   name
   Bob
          Curriculums(/dashboards/my_curriculums)
   name
₿Bob
          Concepts(/concepts)
   Jean
 View
          Conference rooms(/dashboards/video_rooms)
   Create View character_set_client
                                                              collation_connection
   XXXXXX<yes, here it will display the View SQL statement :-) >XXXXXX
          Servers(/servers)
   Table
             Create Table
   students CREATE TABLE `students` (\n `name` varchar(255) NOT NULL,\n `score`
Sandboxes(/user_containers/current)
int(11) DEFAULT '0',\n last_meeting` date DEFAULT NULL\n) ENGINE=InnoDB DEFAULT
   CHARSET=latin1
  bob@dylan:~$
Tools(/dashboards/my_tools)
Repo: Video on demand(/dashboards/videos)

    GitHub repository: alx-backend-storage

    Directory: 0x00-MySQL_Advanced

        File: 11-need_meeting.sql
Peers(/users/peers)
   Check submission > Get a sandbox \
Discord(https://discord.com/app)
                                             View results
                                                                                                       #advand
 Average weighted score
```

Score: 65.0% (Checks completed: 100.0%)

My Profile(/users/my_profile)

Write a SQL script that creates a stored procedure ComputeAverageWeightedScoreForUser that

computes and store the average weighted score for a student.

ReqUirements:

Procedure ComputeAverageScoreForUser is taking 1 input:
Hgm@(/)
Hgm@(/)
Y Planning(/planning/me)
Calculate-Weighted-Average (/ritoken/QHx92mlF43zF6GTEil-Cyw)

Projects(/projects/current)

QA Reviews I can make(/corrections/to_review)

Pvaluation quizzes(/dashboards/my_current_evaluation_quizzes)

Curriculums(/dashboards/my_curriculums)

Concepts(/concepts)

Conference rooms(/dashboards/video_rooms)

Servers(/servers)

Sandboxes(/user_containers/current)

Tools(/dashboards/my_tools)

Video on demand(/dashboards/videos)

Peers(/users/peers)

Discord(https://discord.com/app)

Q

```
bob@dylan:~$ cat 100-init.sql
  -- Initial
  DROP TABLE IF EXISTS corrections;
  DROP TABLE IF EXISTS users;
  DROP TABLE IF EXISTS projects;
        Home(/)
  CREATE TABLE IF NOT EXISTS users (
       id int not null AUTO_INCREMENT,
       naMy Rhamaingn/phasaningdomenull,
      average_score float default 0,
      PRIMARY KEY (id)
೪);
        Projects(/projects/current)
  CREATE TABLE IF NOT EXISTS projects (
      idQAnReviewshicah nAlarke(/cNorecntents/to review)
      name varchar(255) not null,
      weight int default 1,
      PREVANCATION (dashboards/my current evaluation quizzes)
  );
  CREATE TABLE IF NOT EXISTS corrections (
       user_id int not null,
      prGyreiculums (/dashboards/my_curriculums)
score float default 0,
      KEY `user_id` (`user_id`),
KEroncepts/concepts) project_id`),
      CONSTRAINT fk_user_id FOREIGN KEY (`user_id`) REFERENCES `users` (`id`) ON DE
  LETE CASCADE,
      CONSTRACTOR OF SUCCEST (`i
  d`) ON DELETE CASCADE
        Servers(/servers)
   INSERT INTO users (name) VALUES ("Bob");
  SET @user_bob = LAST_INSERT_ID();
        Sandboxes(/user_containers/current)
  INSERT INTO users (name) VALUES ("Jeanne");
  SET @user_jeanne = LAST_INSERT_ID();
        Tools(/dashboards/my tools)
  INSERT INTO projects (name, weight) VALUES ("C is fun", 1);
  SET @project_c = LAST_INSERT_ID();
        Video on demand(/dashboards/videos)
  INSERT INTO projects (name, weight) VALUES ("Python is cool", 2);
  SET @project_py = LAST_INSERT_ID();
INSERT Peers (users/peers) (user_id, project_id, score) VALUES (@user_bob, @project_
  INSERT INTO corrections (user_id, project_id, score) VALUES (@user_bob, @project_
py, 9 piscord(https://discord.com/app)
  INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proj
  ct_c, 91);
  INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proje
  ct_py, 73);
        My Profile(/users/my_profile)
```

```
bob@dylan:~$
  -bob@dylan:~$ cat 100-init.sql | mysql -uroot -p holberton
  •Enter password:
  bob@dylan:~$
  bob@dylan:~$ cat 100-average_weighted_score.sql | mysql -uroot -p holberton
  Enter password:
 bob@dylan:~$
  bob@dylan:~$ cat 100-main.sql
  -- Show and compute average weighted score
My Planning(planning/me)
SELECT * FROM users;
   SELECT * FROM projects;
SELECT * FROM corrections;
Projects(/projects/current)
  CALL ComputeAverageWeightedScoreForUser((SELECT id FROM users WHERE name = "Jeann
  ,e"));
QA Reviews I can make(/corrections/to_review)
  SELECT "--";
SELECT * FROM users;
         Evaluation quizzes(/dashboards/my current evaluation quizzes)
  bob@dylan:~$
  bob@dylan:~$ cat 100-main.sql | mysql -uroot -p holberton
  Enter password:
       n@Grricul@Yfs(/&9sh&6ards/my_curriculums)
   2
       Jeanne 82
∄id
      namencepts(iconcepts)
   1
       C is fun
       Python is cool 2
  user_id project id ms(/dashboards/video_rooms)
  1
       2
            96
       1 Servers(/servers)
2 73
       Sandboxes(/user_containers/current)
name average_score
  •id
  1
       Bob 0
  2 Jeanne 79
bob@dytan:(/dashboards/my_tools)
H
         Video on demand(/dashboards/videos)
 Repo:

    GitHub repository: alx-backend-storage
```

- Directory: 0x00-MySQL_Advanced
- File: 100-average_weighted_score.sql

Check submission — Get a sandbox View results

13. Average weighted score for all!

#advanced

Write a SQL script that creates a stored procedure ComputeAverageWeightedScoreForUsers that computes and store the average weighted score for all students. Requirements: Procedure ComputeAverageWeightedScoreForUsers is not taking any input. Home(/) Tips: Calculate-Weighted-Average (/rltoken/QHx92mlF43zF6GTEil-Cyw) My Planning(/planning/me) Projects(/projects/current) QA Reviews I can make(/corrections/to_review) ? Evaluation quizzes(/dashboards/my current evaluation quizzes) Curriculums(/dashboards/my_curriculums) 盲 Concepts(/concepts) Conference rooms(/dashboards/video_rooms) Servers(/servers) Sandboxes(/user_containers/current) Tools(/dashboards/my_tools) Video on demand(/dashboards/videos)

Peers(/users/peers)

Discord(https://discord.com/app)

Q

```
bob@dylan:~$ cat 101-init.sql
  -- Initial
  DROP TABLE IF EXISTS corrections;
  DROP TABLE IF EXISTS users;
  DROP TABLE IF EXISTS projects;
        Home(/)
  CREATE TABLE IF NOT EXISTS users (
       id int not null AUTO_INCREMENT,
       naMy Rhamaingn/phasaningdomenull,
      average_score float default 0,
      PRIMARY KEY (id)
ኒ
        Projects(/projects/current)
  CREATE TABLE IF NOT EXISTS projects (
      idQAnReviewshicah nAlarke(/cNorecntents/to review)
      name varchar(255) not null,
      weight int default 1,
      PREVANCATION (dashboards/my current evaluation quizzes)
  );
  CREATE TABLE IF NOT EXISTS corrections (
       user_id int not null,
      prGyreiculums (/dashboards/my_curriculums)
score float default 0,
      KEY `user_id` (`user_id`),
KEroncepts/concepts) project_id`),
      CONSTRAINT fk_user_id FOREIGN KEY (`user_id`) REFERENCES `users` (`id`) ON DE
  LETE CASCADE,
      CONSTRACTOR OF SUCCEST (`i
  d`) ON DELETE CASCADE
        Servers(/servers)
   INSERT INTO users (name) VALUES ("Bob");
  SET @user_bob = LAST_INSERT_ID();
        Sandboxes(/user_containers/current)
  INSERT INTO users (name) VALUES ("Jeanne");
  SET @user_jeanne = LAST_INSERT_ID();
        Tools(/dashboards/my tools)
  INSERT INTO projects (name, weight) VALUES ("C is fun", 1);
  SET @project_c = LAST_INSERT_ID();
        Video on demand(/dashboards/videos)
  INSERT INTO projects (name, weight) VALUES ("Python is cool", 2);
  SET @project_py = LAST_INSERT_ID();
INSERT Peers (users/peers) (user_id, project_id, score) VALUES (@user_bob, @project_
  INSERT INTO corrections (user_id, project_id, score) VALUES (@user_bob, @project_
py, 96 iscord(https://discord.com/app)
  INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proj
  ct_c, 91);
  INSERT INTO corrections (user_id, project_id, score) VALUES (@user_jeanne, @proje
  ct_py, 73);
        My Profile(/users/my_profile)
```

```
bob@dylan:~$
  -bob@dylan:~$ cat 101-init.sql | mysql -uroot -p holberton
   Enter password:
   bob@dylan:~$
   bob@dylan:~$ cat 101-average_weighted_score.sql | mysql -uroot -p holberton
   Enter password:
   bob@dylan:~$
   bob@dylan:~$ cat 101-main.sql
   -- Show and compute average weighted score
My Planning(/planning/me)
SELECT * FROM users;
   SELECT * FROM projects;
SELECT * FROM corrections;
Projects(/projects/current)
   CALL ComputeAverageWeightedScoreForUsers();
  SELECT QA Reviews I can make(/corrections/to_review)
   SELECT * FROM users;
ʔ <sub>bob@dy</sub> Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)
   bob@dylan:~$ cat 101-main.sql | mysql -uroot -p holberton
   Enter password:
   id name
                  average_score
        Beurficulums(/dashboards/my_curriculums)
        Jeanne 0
   id
        name
                  weight
\mathbf{f}^1
        C concepts (/concepts)
        Python is cool 2
   user_id project_id score
        ^{1} Conference rooms(/dashboards/video_rooms)
   2
        1
             91
        <sup>2</sup> Servers(/servers)
        name average_score
Sandboxes(/user_containers/current)
Bob 90.6667
   id
   2
        Jeanne 79
  bob@dylan:~$
Tools(/dashboards/my_tools)
Repo: Video on demand(/dashboards/videos)

    GitHub repository: alx-backend-storage

    Directory: 0x00-MySQL_Advanced

        File: 101-average_weighted_score.sql
Peers(/users/peers)
   Check submission > Get a sandbox New Discord(https://discord.com/app)
                                           View results
```