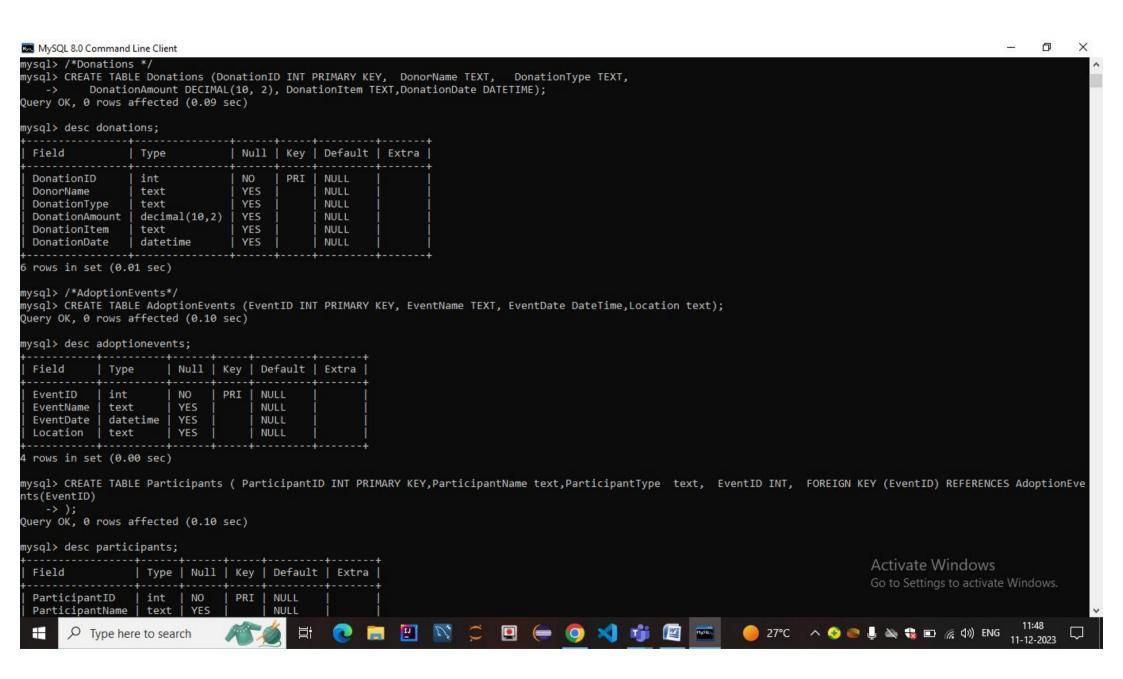
MvSOL 8.0 Command Line Client mysql> /\* CODING CHALLENGES \*/ mysql> /\* PetPals, The Pet Adpotion Platform \*/ mysql> /\*TASKS : /\*> 1. Provide a SQL Script that initializes the database for the Pet Adoption Platform "PetPals"\*/ mysql> Create database if not exists PetPals; Query OK, 1 row affected (0.08 sec) mysal> Use Petpals: Database changed mysql> /\*2.Create tables for pets,shelters,donations,adoption events and participants\*/ mysql> /\*PETs\*/ mysql> CREATE TABLE Pets( PetID INT PRIMARY KEY, Name TEXT, Age INT,Breed TEXT,Type text,AvailableForAdoption BIT); Query OK, 0 rows affected (0.23 sec) mysal> desc pets; Field Type | Null | Key | Default | Extra PetID int NO PRI NULL YES NULL Name text int YES NULL Age Breed text YES NULL text YES NULL Type AvailableForAdoption | bit(1) | YES NULL rows in set (0.08 sec) mysal> /\*Shelters\*/ mysql> CREATE TABLE Shelters(ShelterID INT PRIMARY KEY, Name TEXT,Location TEXT); Query OK, 0 rows affected (0.04 sec) mysal> desc Shelters; Field | Type | Null | Key | Default | Extra ShelterID | int NO PRI | NULL Name text YES NULL text YES NULL Location **Activate Windows** 3 rows in set (0.00 sec) Go to Settings to activate Windows. mysql> \_ Type here to search



mysql> /\*5.Write an SQL query that retrieves a list of available pets (those marked as available for adoption) /\*> from the "Pets" table. Include the pet's name, age, breed, and type in the result set. Ensure that /\*> the query filters out pets that are not available for adoption\*/ mysql> SELECT Name, Age, Breed, Type -> FROM Pets -> WHERE AvailableForAdoption = 1; Empty set (0.12 sec) mysql> /\*6.Write an SOL guery that retrieves the names of participants (shelters and adopters) registered /\*> for a specific adoption event. Use a parameter to specify the event ID. Ensure that the query /\*> joins the necessary tables to retrieve the participant names and types.\*/ mysql> SELECT p.ParticipantName, p.ParticipantType -> FROM Participants p -> JOIN AdoptionEvents ae ON p.EventID = ae.EventID -> WHERE ae.EventID = 101: Empty set (0.05 sec) mysql> /\* 7. Create a stored procedure in SQL that allows a shelter to update its information (name and /\*> location) in the "Shelters" table. Use parameters to pass the shelter ID and the new information. /\*> Ensure that the procedure performs the update and handles potential errors, such as an invalid /\*> shelter ID.\*/ mysql> DELIMITER // mysql> mysql> CREATE PROCEDURE UpdateShelterInformation ( IN p ShelterID INT, IN p NewName VARCHAR(255), IN p NewLocation VARCHAR(255) -> BEGIN DECLARE shelterCount INT; SELECT COUNT(\*) INTO shelterCount FROM Shelters WHERE ShelterID = p ShelterID; IF shelterCount > 0 THEN UPDATE Shelters SET Name = p NewName, Location = p NewLocation WHERE ShelterID = p ShelterID; SELECT 'Shelter information updated successfully.' AS Result; **Activate Windows** Go to Settings to activate Windows. SELECT 'Invalid Shelter ID. No updates performed.' AS Result; END IF; -> END // Type here to search

MvSOL 8.0 Command Line Client

## MySQL 8.0 Command Line Client

affiliates. Other names may be trademarks of their respective

```
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use petpals;
Database changed
mysql>
mysql> /*8. Write an SQL query that calculates and retrieves the total donation amount for each shelter (by
  /*> shelter name) from the "Donations" table. The result should include the shelter name and the
  /*> total donation amount. Ensure that the query handles cases where a shelter has received no
  /*> donations*/
mysql> SELECT
          shelters.name,sum(Donations.donationAmount) as totaldonationamount
          from donations
          RIGHT JOIN shelters ON donations.donationId=shelters.shelterId
          GROUP BY Shelters.Name:
Empty set (0.00 sec)
mysql> /*Write an SQL query that retrieves the names of pets from the "Pets" table that do not have an
  /*> owner (i.e., where "OwnerID" is null). Include the pet's name, age, breed, and type in the result
  /*> set.*/
mysql> SELECT Name,age,breed,type
   -> from pets
   -> where petid not in (SELECT petid from adoptionevents);
Empty set (0.01 sec)
```

## MySQL 8.0 Command Line Client

```
mysql> /*10. Write an SQL query that retrieves the total donation amount for each month and year (e.g.,
  /*> January 2023) from the "Donations" table. The result should include the month-year and the
  /*> corresponding total donation amount. Ensure that the query handles cases where no donations
  /*> were made in a specific month-year.*/
mysql> SELECT
          DATE_FORMAT(DonationDate, '%M %Y') AS MonthYear,
          COALESCE(SUM(DonationAmount), 0) AS TotalDonationAmount
    -> FROM
          Donations
    -> GROUP BY
          DATE_FORMAT(DonationDate, '%M %Y');
Empty set (0.00 sec)
mysql> /*11. Retrieve a list of distinct breeds for all pets that are either aged between 1 and 3 years or older
  /*> than 5 years*/
mysql> SELECT DISTINCT Breed
   -> FROM Pets
   -> WHERE (Age BETWEEN 1 AND 3) OR (Age > 5);
Empty set (0.00 sec)
```

MvSOL 8.0 Command Line Client mysql> /\*12. Retrieve a list of pets and their respective shelters where the pets are currently available for /\*> adoption\*/ mysql> SELECT P.Name AS PetName, P.Type AS PetType, P.Breed, S.Name AS ShelterName -> FROM Pets P -> JOIN Shelters S ON P.ShelterID = S.ShelterID -> WHERE P.AvailableForAdoption = 1; ERROR 1054 (42522): Unknown column 'P.ShelterID' in 'on clause' mysql> /\*12. Retrieve a list of pets and their respective shelters where the pets are currently available for /\*> adoption\*/ mysal> SELECT Pets.\*.Shelters.Name as ShelterName -> FROM Pets -> JOIN Shelters ON Pets.PetID=Shelters.ShelterID -> WHERE AvailableForAdoption=1; Empty set (0.00 sec) mysql> /\*13. Find the total number of participants in events organized by shelters located in specific city. /\*> Example: City=Chennai\*/ mysgl> SELECT COUNT(DISTINCT P.ParticipantID) AS TotalParticipants -> FROM Participants P -> JOIN Shelters S ON P.ParticipantID = S.ShelterID -> JOIN AdoptionEvents AE ON P.EventID = AE.EventID -> WHERE S.Location = 'Chennai' AND P.ParticipantType = 'Shelter'; -----+ TotalParticipants ------0 1 1 row in set (0.01 sec) mysql> /\*14. Retrieve a list of unique breeds for pets with ages between 1 and 5 years\*/ mysql> SELECT DISTINCT Breed -> FROM Pets -> WHERE Age BETWEEN 1 AND 5; Empty set (0.00 sec) mysql> /\*15. Find the pets that have not been adopted by selecting their information from the 'Pet' table\*/ mvsal> SELECT \* -> FROM Pets -> WHERE AvailableForAdoption = 1; **Activate Windows** Empty set (0.00 sec) Go to Settings to activate Windows. mysql> /16. Retrieve the names of all adopted pets along with the adopter's name from the 'Adoption' and '> 'User' tables\*/ 💙 24°C 🗥 🔌 🖅 🦟 ರು)) ENG P Type here to search

口 MySQL 8.0 Command Line Client mysql> mysql> /\*17. Retrieve a list of all shelters along with the count of pets currently available for adoption in each /\*> shelter\*/ mysql> SELECT S.Name AS ShelterName, COUNT(P.PetID) AS AvailablePetsCount -> FROM Shelters S -> LEFT JOIN Pets P ON S.ShelterID = P.ShelterID -> WHERE P.AvailableForAdoption = 1 OR P.AvailableForAdoption IS NULL -> GROUP BY S.Name; ERROR 1054 (42522): Unknown column 'P.ShelterID' in 'on clause' mysql> mysql> mysql> /\*17. Retrieve a list of all shelters along with the count of pets currently available for adoption in each /\*> shelter\*/ mysql> SELECT S.Name AS ShelterName, COUNT(P.PetID) AS AvailablePetsCount -> FROM Shelters S -> LEFT JOIN Pets P ON S.ShelterID = s.ShelterID -> WHERE AvailableForAdoption = 1 -> GROUP BY S.shelterid; Empty set (0.00 sec) mysql> /\*18. Find pairs of pets from the same shelter that have the same breed\*/ mysql> SELECT P1.PetID AS PetIID, P1.Name AS PetIName, P1.Breed AS PetIBreed, P2.PetID AS Pet2ID, P2.Name AS Pet2Name, P2.Breed AS Pet2Breed, S.Name AS ShelterName -> FROM Pets P1 -> JOIN **Activate Windows** Pets P2 ON P1.Breed = P2.Breed AND P1.PetID < P2.PetID Go to Settings to activate Windows. -> JOIN Shelters S ON P1.ShelterID = S.ShelterID -> WHERE 24°C ∧ ⋈ 幅 (€ む)) ENG Type here to search 13-12-2023

MySQL 8.0 Command Line Client