Setting environment for using XAMPP for Windows.

Global@DESKTOP-D8Q8JL7 c:\users\global\desktop\sifa

# mysql -u root -p

Enter password:

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 11

Server version: 10.4.28-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> -- Create the FishingManagementDB database

MariaDB [(none)]> CREATE DATABASE FishingManagementDB;

ERROR 1007 (HY000): Can't create database 'fishingmanagementdb'; database exists

MariaDB [(none)]>

MariaDB [(none)]> -- Switch to the new database

MariaDB [(none)]> USE FishingManagementDB;

Database changed

MariaDB [FishingManagementDB]>

MariaDB [FishingManagementDB]> -- Create the Fishermen table

MariaDB [FishingManagementDB]> CREATE TABLE Fishermen (

-> FishermanID INT PRIMARY KEY,

-> FirstName VARCHAR(50),

-> LastName VARCHAR(50),

-> BirthDate DATE,

-> Address VARCHAR(100),

-> Phone VARCHAR(20)

-> );

Query OK, 0 rows affected (0.111 sec)

MariaDB [FishingManagementDB]>

MariaDB [FishingManagementDB]> -- Create the Boats table

MariaDB [FishingManagementDB]> CREATE TABLE Boats (

-> BoatID INT PRIMARY KEY,

-> BoatName VARCHAR(50),

-> FishermanID INT,

-> Capacity INT,

-> FOREIGN KEY (FishermanID) REFERENCES Fishermen(FishermanID)

-> );

Query OK, 0 rows affected (0.084 sec)

MariaDB [FishingManagementDB]>

MariaDB [FishingManagementDB]> -- Create the FishingLocations table

MariaDB [FishingManagementDB]> CREATE TABLE FishingLocations (

-> LocationID INT PRIMARY KEY,

-> LocationName VARCHAR(100),

-> Latitude DECIMAL(10, 6),

-> Longitude DECIMAL(10, 6)

-> );

Query OK, 0 rows affected (0.070 sec)

MariaDB [FishingManagementDB]>

MariaDB [FishingManagementDB]> -- Create the Catches table

MariaDB [FishingManagementDB]> CREATE TABLE Catches (

-> CatchID INT PRIMARY KEY,

-> FishermanID INT,

-> BoatID INT,

-> LocationID INT,

-> FishType VARCHAR(50),

-> CatchDate DATE,

-> CatchWeight DECIMAL(10, 2),

-> FOREIGN KEY (FishermanID) REFERENCES Fishermen(FishermanID),

-> FOREIGN KEY (BoatID) REFERENCES Boats(BoatID),

-> FOREIGN KEY (LocationID) REFERENCES FishingLocations(LocationID)

-> );

Query OK, 0 rows affected (0.088 sec)

MariaDB [FishingManagementDB]> INSERT INTO Fishermen (FishermanID, FirstName, LastName, BirthDate, Address, Phone)

-> VALUES

-> (1, 'John', 'Smith', '1985-05-10', '123 Main St', '555-1234'),

-> (2, 'Alice', 'Johnson', '1992-12-15', '456 Elm Ave', '555-5678');

Query OK, 2 rows affected (0.104 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [FishingManagementDB]> INSERT INTO Boats (BoatID, BoatName, FishermanID, Capacity)

-> VALUES

-> (1, 'Seawind 1', 1, 5),

-> (2, 'Ocean Voyager', 2, 8);

Query OK, 2 rows affected (0.006 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [FishingManagementDB]> INSERT INTO FishingLocations (LocationID, LocationName, Latitude, Longitude)

-> VALUES

-> (1, 'Lake Sunrise', 45.123456, -75.987654),

-> (2, 'River Reflection', 35.678901, -90.543210);

Query OK, 2 rows affected (0.005 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [FishingManagementDB]> INSERT INTO Catches (CatchID, FishermanID, BoatID, LocationID, FishType, CatchDate, CatchWeight)

-> VALUES

-> (1, 1, 1, 1, 'Salmon', '2023-08-15', 10.2),

-> (2, 2, 2, 2, 'Trout', '2023-08-18', 5.5);

Query OK, 2 rows affected (0.005 sec)

Records: 2 Duplicates: 0 Warnings: 0

MariaDB [FishingManagementDB]> SELECT FishermanID, FirstName, LastName FROM Fishermen;

+-------------+-----------+----------+

| FishermanID | FirstName | LastName |

+-------------+-----------+----------+

| 1 | John | Smith |

| 2 | Alice | Johnson |

+-------------+-----------+----------+

2 rows in set (0.001 sec)

MariaDB [FishingManagementDB]> SELECT BoatsID, BoatName, Capacity FROM Boats;

ERROR 1054 (42S22): Unknown column 'BoatsID' in 'field list'

MariaDB [FishingManagementDB]> select BoatID, BoatName, capacity FROM Boats;

+--------+---------------+----------+

| BoatID | BoatName | capacity |

+--------+---------------+----------+

| 1 | Seawind 1 | 5 |

| 2 | Ocean Voyager | 8 |

+--------+---------------+----------+

2 rows in set (0.001 sec)

MariaDB [FishingManagementDB]> SELECT LocationID, LocationName, Latitude FROM Fishing Locations;

ERROR 1146 (42S02): Table 'fishingmanagementdb.fishing' doesn't exist

MariaDB [FishingManagementDB]> SELECT CatchID, FishermanID, BoatID, LocationID FROM Catches;

+---------+-------------+--------+------------+

| CatchID | FishermanID | BoatID | LocationID |

+---------+-------------+--------+------------+

| 1 | 1 | 1 | 1 |

| 2 | 2 | 2 | 2 |

+---------+-------------+--------+------------+

2 rows in set (0.001 sec)

MariaDB [FishingManagementDB]> UPDATE Fishermen

-> set Phone ='newphone@example.com'

-> WHERE FishermanID = 1;

Query OK, 1 row affected (0.006 sec)

Rows matched: 1 Changed: 1 Warnings: 0

DELETE FROM Fishermen

WHERE FishermanID=1;

DELETE FROM FishingLocation

WHERE LocationID=1;

CREATE VIEW Fishermen phone VIEW AS

SELECT fistName,lastName, phone

FROM Fisherman;

SELECT\*

FROM Fishermen phone View

DELIMITER//

CREATE PROCEDURE GetCatchesByFishermanID (IN FishermanID INT)

BEGIN

SELECT\*

FROM Catches

WHERE boatID IN (SELECT boatsID FORM Boats WHERE ownerID=FishermanID);

END//

DELIMITER;

CALL GetCatchesByFishermanID (1);

DELIMITER//

CREATE PROCEDURE Insert Catches(IN boatID INT,IN CatchDate DATE,IN Fishspecies VARCHAR(50),IN

Weight DECIMAL(10,2),IN Location VARCHAR(100))

BEGIN

INSERT INTO Catches (boatID,CatchDate,Fishspecies,weight,Location)

VALUES (boatID,CatchDate,Fishspecies,Weight,Location);

END//

DELIMITER;

CALL Insert Catches(1,’2023-09-14’,’salmon’,5.75,’lake kivu’);

DELIMITER//

CREATE PROCEDURE Update catches Weight (IN CatchID INT,IN newWeight DECIMAL (10,2))

BEGIN

UPDATE Catches

SET weight=newWeight

WHERE CatchID=CatchID;

END//

DELIMITER;

CALL Update Catches weight(1,5.6);

DELIMITER//

CREATE PROCEDURE DELETE Catches(IN CatchID INT)

BEGIN

DELETE FROM Catches

WHERE CatchID=CatchID

END//

DELIMITER;

CALL Delete Catches(1);

DELIMITER//

CREATE TRIGGER CatchesInsertedtrigger

AFTER INSERT ON Catshes

FOR EACH ROW

BIGIN

INSERT INTO Catches (CatchID)

VALUES (‘New catchID added for boat ID ‘|| NEW.boatID);

END//

DELIMITER;

DELIMITER//

CREATE TRIGGER CatchesWeightUpdatedTrigger

AFTER UPDATE ON Catches

FOR EACH ROW

BEGIN

IF NEW.weight\_kg<> OLD.weight\_kg THEN

INSERT INTO audit\_log (log\_message)

VALUES(‘Catches weight updated for catch ID ‘ || NEW .catchID);

END IF;

END//

DELIMITER ;

CREATE USER ‘Innosifa’@’localhost’IDENTIFIED BY ‘222@00$19#04’;

GRANT ALL PRIVILEGES ON fishing management system.\*TO’Innosifa’@’localhost’;