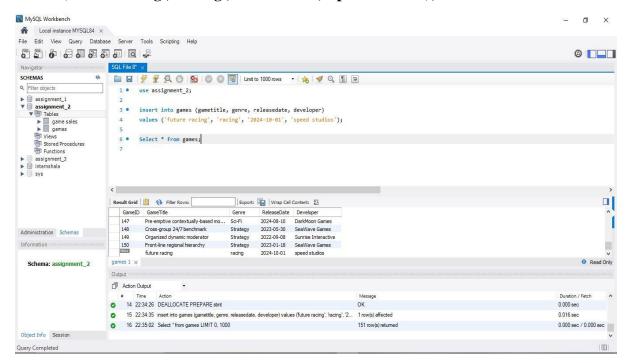MySQL

Assignment 2ⁿᵈ

Project Objective : The objective of this project is to analyze the game sales data and extract meaningful insights using various SQL operations. The tasks will involve inserting new data, updating records, deleting records, and using aggregate functions and joins to explore game sales performance.

Task 1ˢᵗ:To Insert a new game with the title "Future Racing", genre "Racing", release date "2024-10-01", and developer "Speed Studios".

insert into games (gametitle, genre, releasedate, developer)

values ('future racing', 'racing', '2024-10-01', 'speed studios');

Task 2nd: To Update the price of the game with GameID 2 on the PlayStation platform to 60.
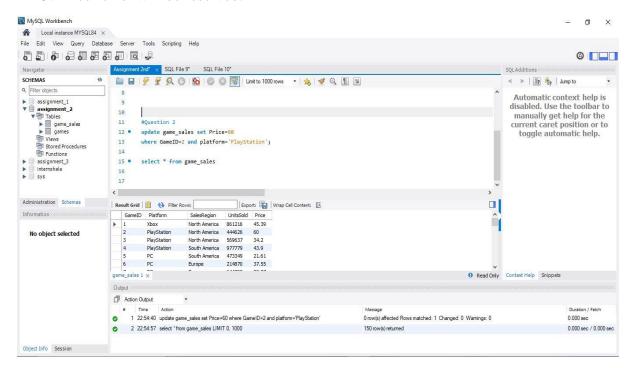
UPDATE game_sales

SET Price = 60

WHERE GameID = 2 AND Platform = 'PlayStation';

If you got update error you have to do
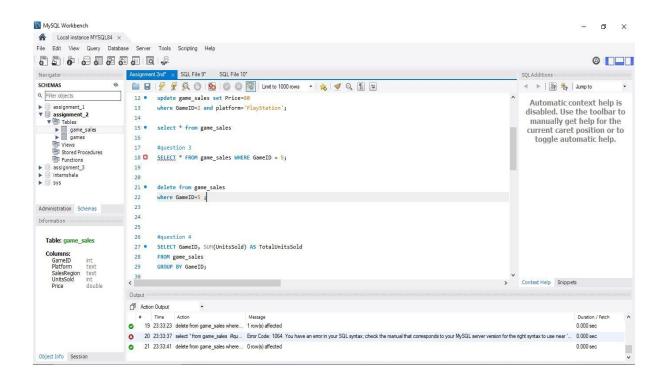
1. edit ->preferences ->SQL editor -> uncheck the safe update -> OK
2. Query -> Reconnect to server
3. Your error will be resolved.

Task 3rd: To Delete the record of the game with GameID 5 from the Game Sales table.
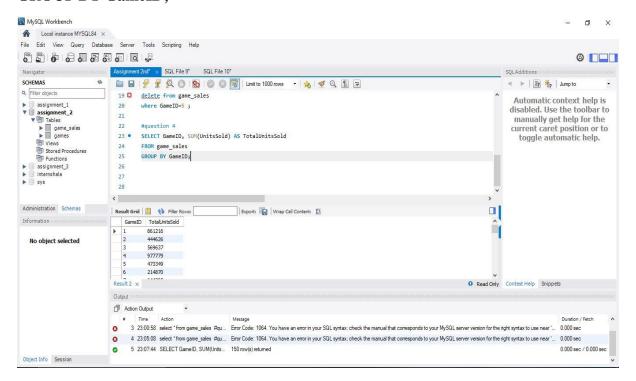
DELETE FROM game_sales

WHERE GameID = 5;

Task 4th : To Calculate the total number of units sold for each game across all platforms and regions.

SELECT GameID, SUM(UnitsSold) AS TotalUnitsSold

FROM game_sales

GROUP BY GameID;

Task 5th : To Identify the game with the highest number of units sold in North America.
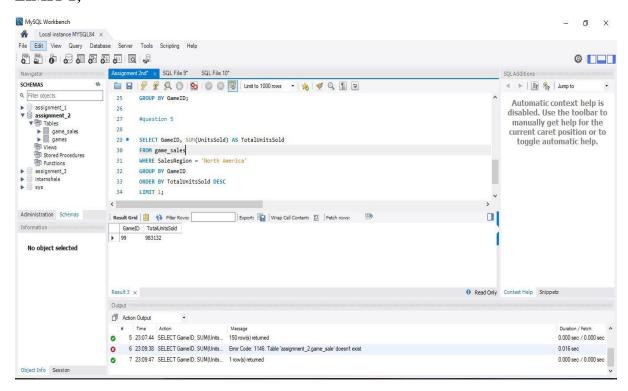
SELECT GameID, SUM(UnitsSold) AS TotalUnitsSold

FROM game_sale

WHERE SalesRegion = 'North America'

GROUP BY GameID
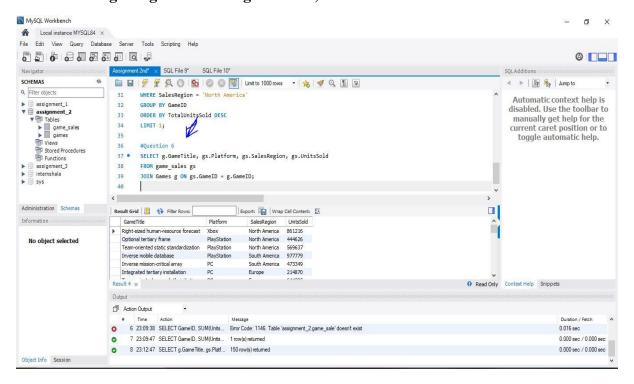
ORDER BY TotalUnitsSold DESC

LIMIT 1;

Task 6ᵗʰ: To Get the game titles, platforms, and sales regions along with the units sold for each game.

SELECT g.GameTitle, gs.Platform, gs.SalesRegion, gs.UnitsSold
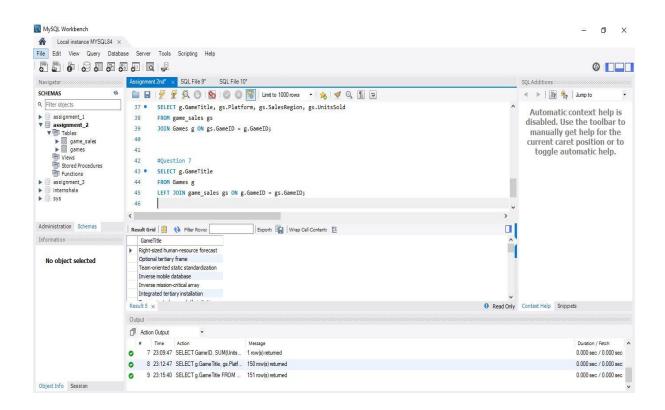
FROM game_sales gs

JOIN Games g ON gs.GameID = g.GameID;

Task 7th : To Find all games, including those that have no sales data in the Game Sales table.

SELECT g.GameTitle

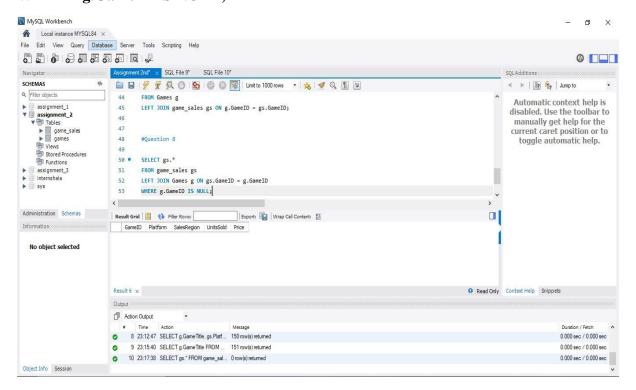**FROM Games g**

LEFT JOIN game_sales gs ON g.GameID = gs.GameID;

Task 8th : Retrieve sales records where the game details are missing in the Games table.

SELECT gs.*

FROM game_sales gs

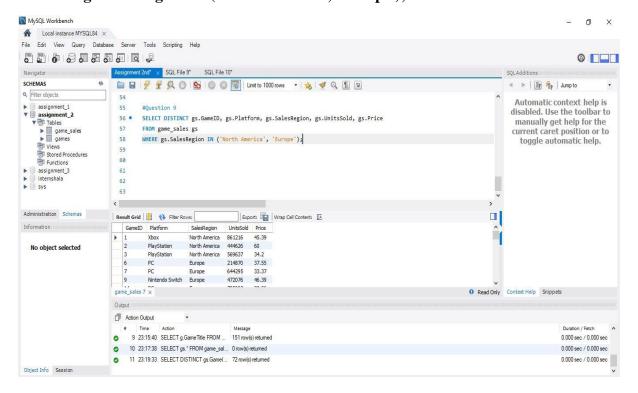**LEFT JOIN Games g ON gs.GameID = g.GameID**

WHERE g.GameID IS NULL;

Task 9th: To Retrieve game sales data for North America and Europe removing duplicate records.

SELECT DISTINCT gs.GameID, gs.Platform, gs.SalesRegion, gs.UnitsSold, gs.Price

FROM game_sales gs

WHERE gs.SalesRegion IN ('North America', 'Europe');

Task 10th : To Retrieve all game sales data from North America and Europe without removing duplicate records.

SELECT gs.GameID, gs.Platform, gs.SalesRegion, gs.UnitsSold, gs.Price

FROM game_sales gs

WHERE gs.SalesRegion IN ('North America', 'Europe');