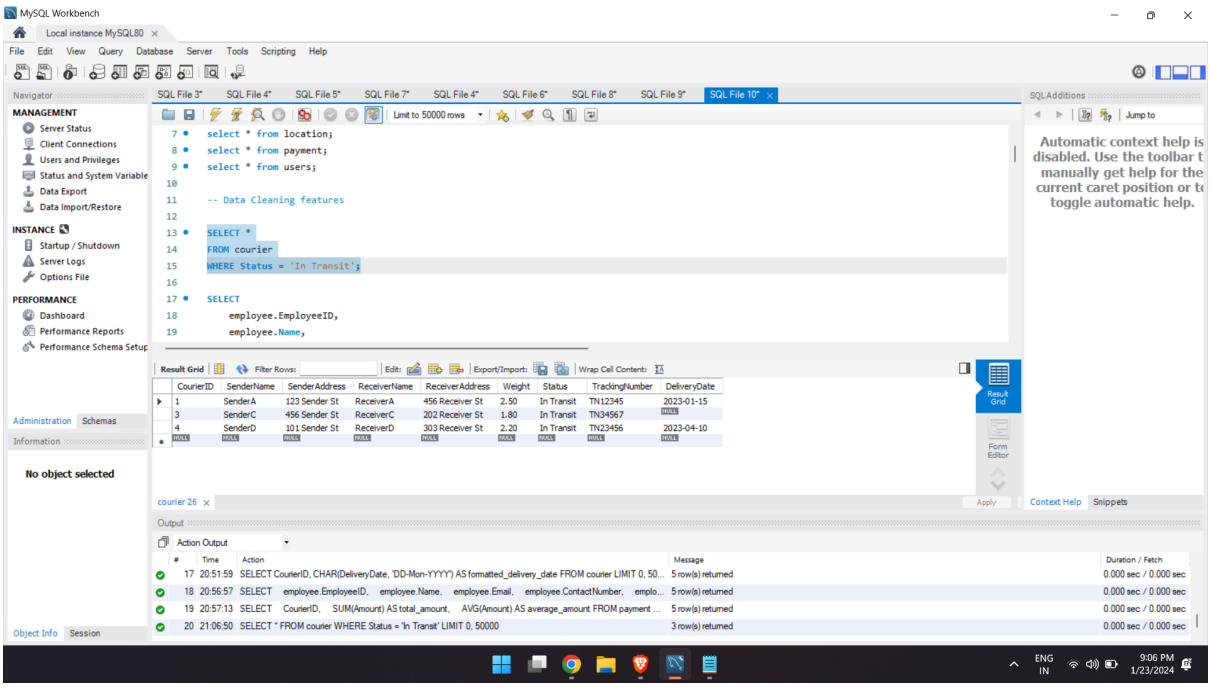
Name : Parth Nandedkar
Date : 23 Jan 2024
Topics : Advanced SQL Concepts
Batch : Data Engineering Batch-1

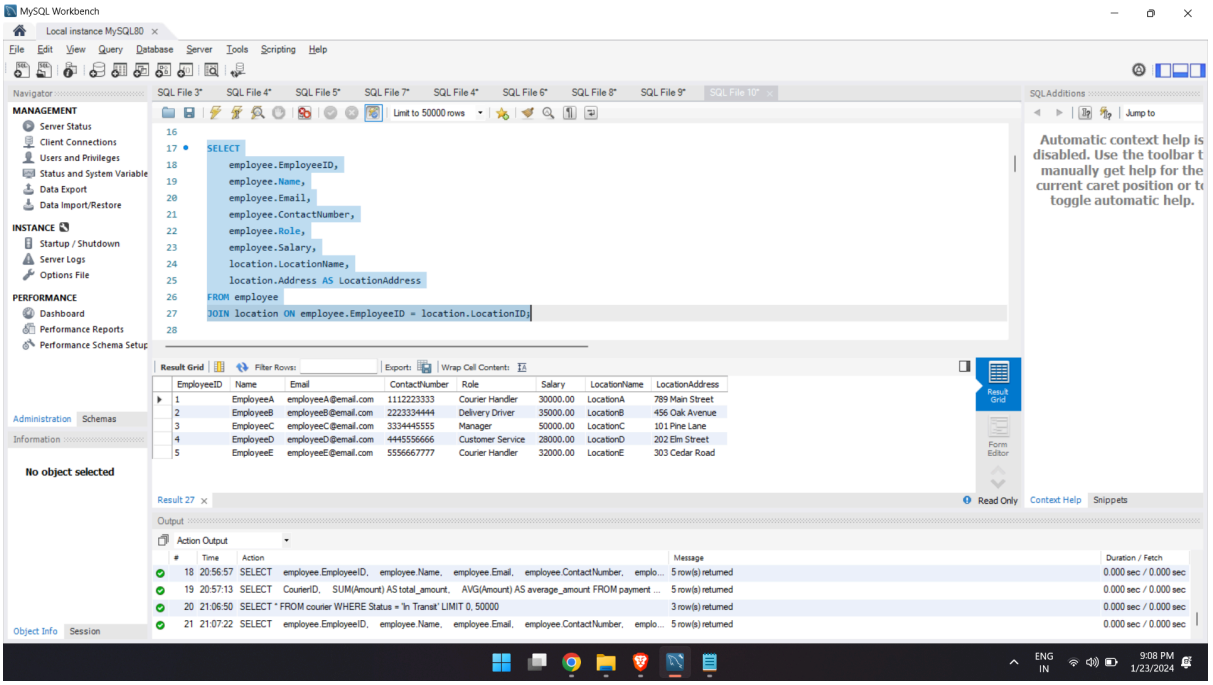
Data cleaning & Transformation queries ,Ranking function,stored procedure

Data Cleaning And Transformation :

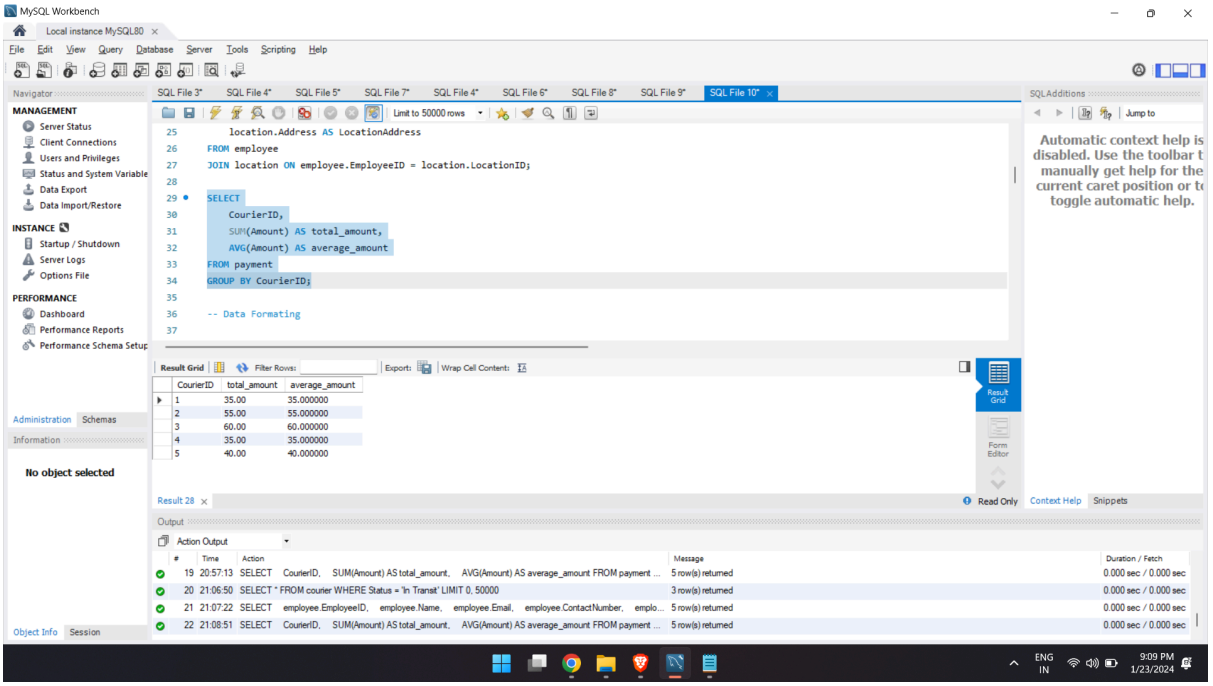
Filtering Function :



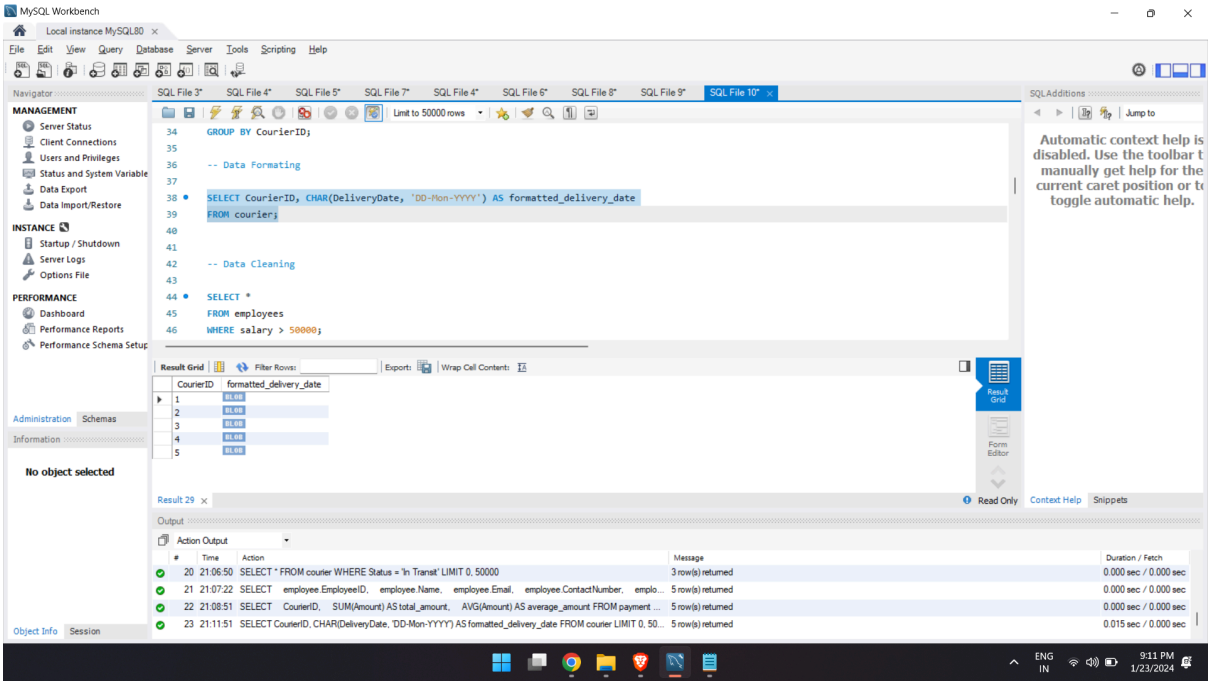
Retrieving Data from different Table :



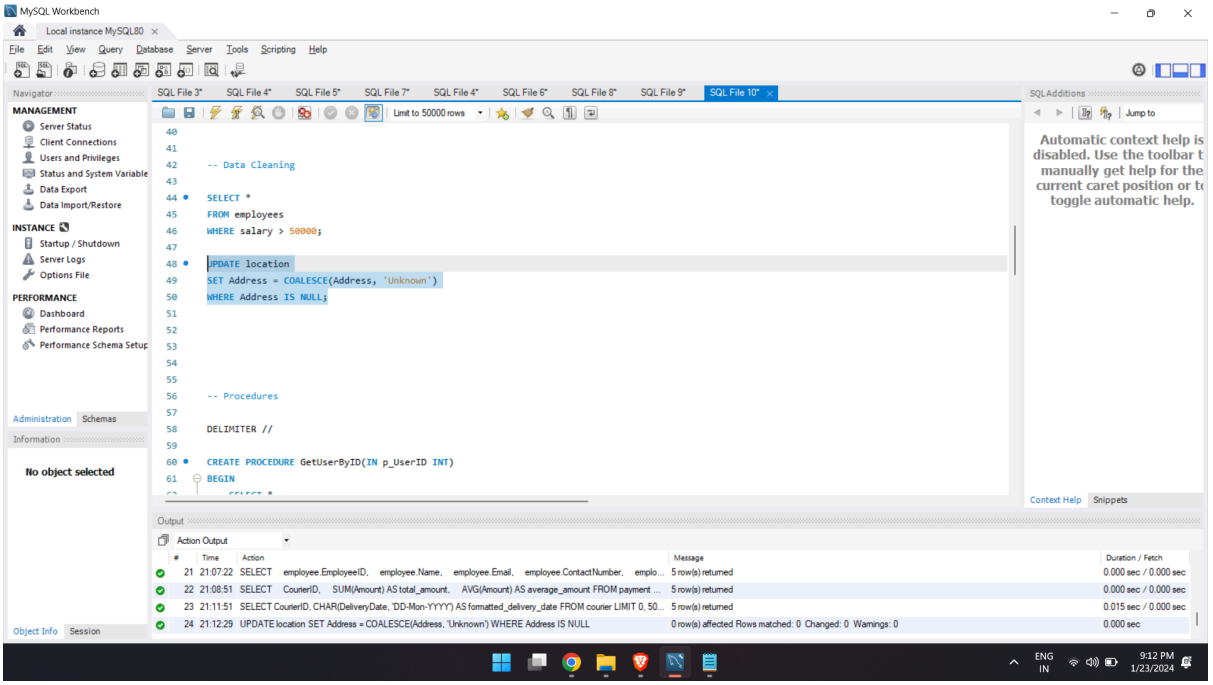
Aggregate Function :



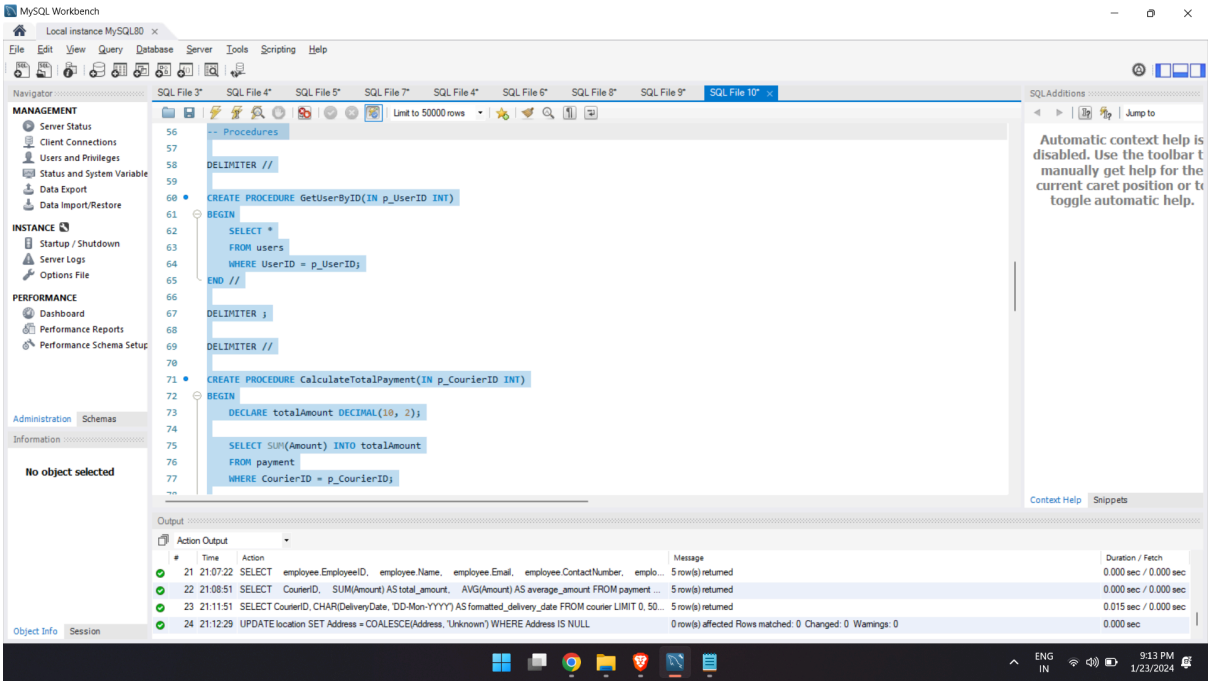
Data formatting :

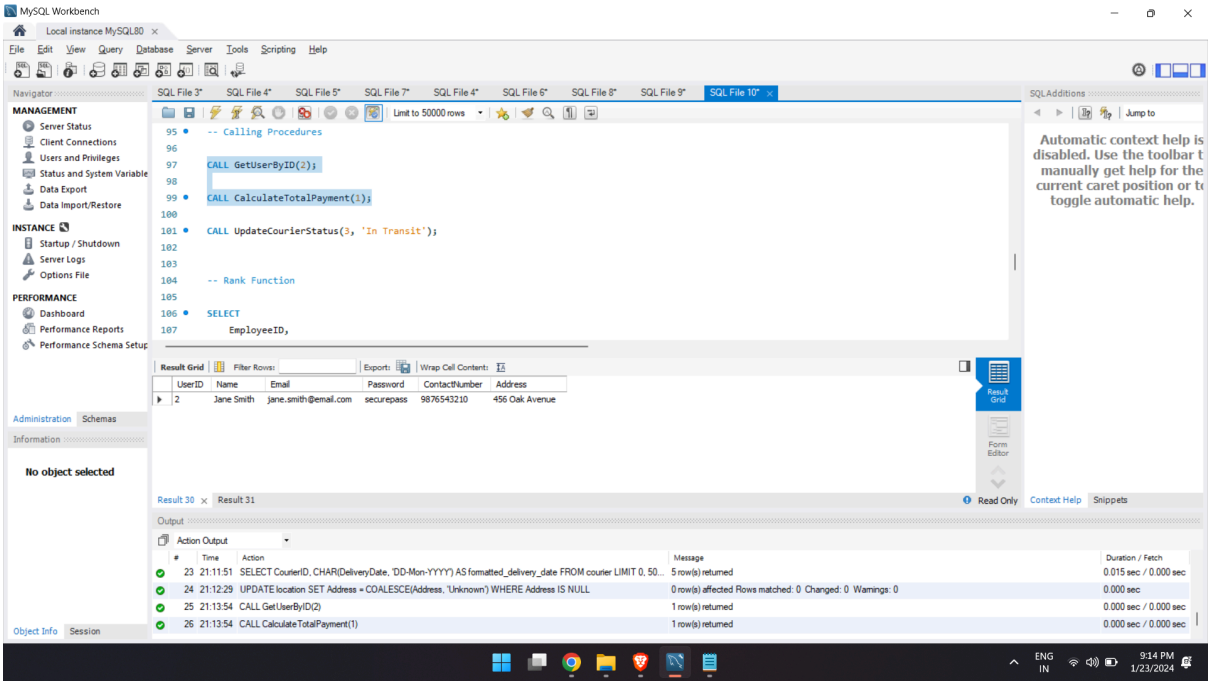


Data Cleaning :



Procedures :


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 4* SQL File 6* SQL File 8* SQL File 9* SQL File 10*
Limit to 50000 rows
-- Procedures
DELIMITER //
CREATE PROCEDURE GetUserByID(IN p_UserID INT)
BEGIN
SELECT *
FROM users
WHERE UserID = p_UserID;
END //
DELIMITER ;
DELIMITER //
CREATE PROCEDURE CalculateTotalPayment(IN p_CourierID INT)
BEGIN
DECLARE totalAmount DECIMAL(10, 2);
SELECT SUM(Amount) INTO totalAmount
FROM payment
WHERE CourierID = p_CourierID;
Output
Action Output
Time Action Message Duration / Fetch
21 21:07:22 SELECT employee.EmployeeID, employee.Name, employee.Email, employee.ContactNumber, emplo... 5 row(s) returned 0.000 sec / 0.000 sec
22 21:08:51 SELECT CourierID, SUM(Amount) AS total_amount, AVG(Amount) AS average_amount FROM payment ... 5 row(s) returned 0.000 sec / 0.000 sec
23 21:11:51 SELECT CourierID, CHAR(DeliveryDate, 'DD-Mon-YYYY') AS formatted_delivery_date FROM courier LIMIT 0, 50... 5 row(s) returned 0.015 sec / 0.000 sec
24 21:12:29 UPDATE location SET Address = COALESCE(Address, 'Unknown') WHERE Address IS NULL 0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0 0.000 sec
No object selected
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
9:13 PM
1/23/2024


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
SQL File 3* SQL File 4* SQL File 5* SQL File 7* SQL File 4* SQL File 6* SQL File 8* SQL File 9* SQL File 10*
Limit to 50000 rows
-- Calling Procedures
CALL GetUserByID(2);
CALL CalculateTotalPayment(1);
CALL UpdateCourierStatus(3, 'In Transit');
-- Rank Function
SELECT
EmployeeID,
Result Grid
UserID Name Email Password ContactNumber Address
2 Jane Smith jane.smith@email.com securepass 9876543210 456 Oak Avenue
Result 30 Result 31
Read Only
Output
Action Output
Time Action Message Duration / Fetch
23 21:11:51 SELECT CourierID, CHAR(DeliveryDate, 'DD-Mon-YYYY') AS formatted_delivery_date FROM courier LIMIT 0, 50... 5 row(s) returned 0.015 sec / 0.000 sec
24 21:12:29 UPDATE location SET Address = COALESCE(Address, 'Unknown') WHERE Address IS NULL 0 row(s) affected Rows matched: 0 Changed: 0 Warnings: 0 0.000 sec
25 21:13:54 CALL GetUserByID(2) 1 row(s) returned 0.000 sec / 0.000 sec
26 21:13:54 CALL CalculateTotalPayment(1) 1 row(s) returned 0.000 sec / 0.000 sec
No object selected
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
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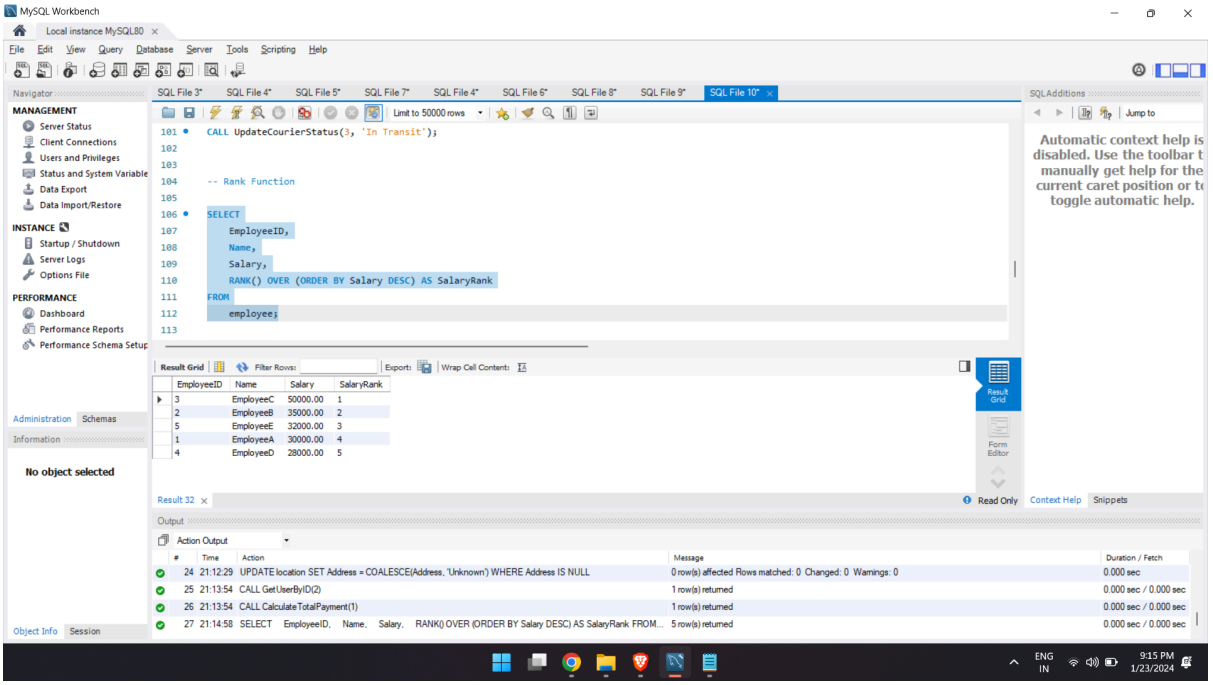
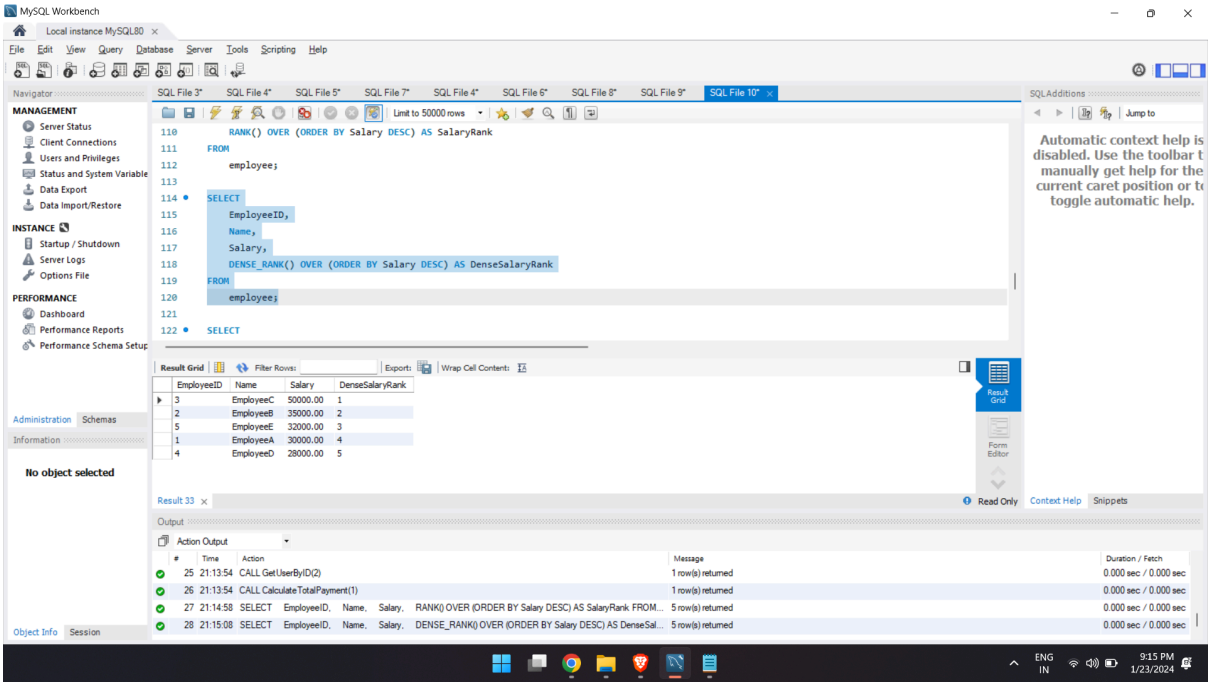
1/23/2024

Rank :

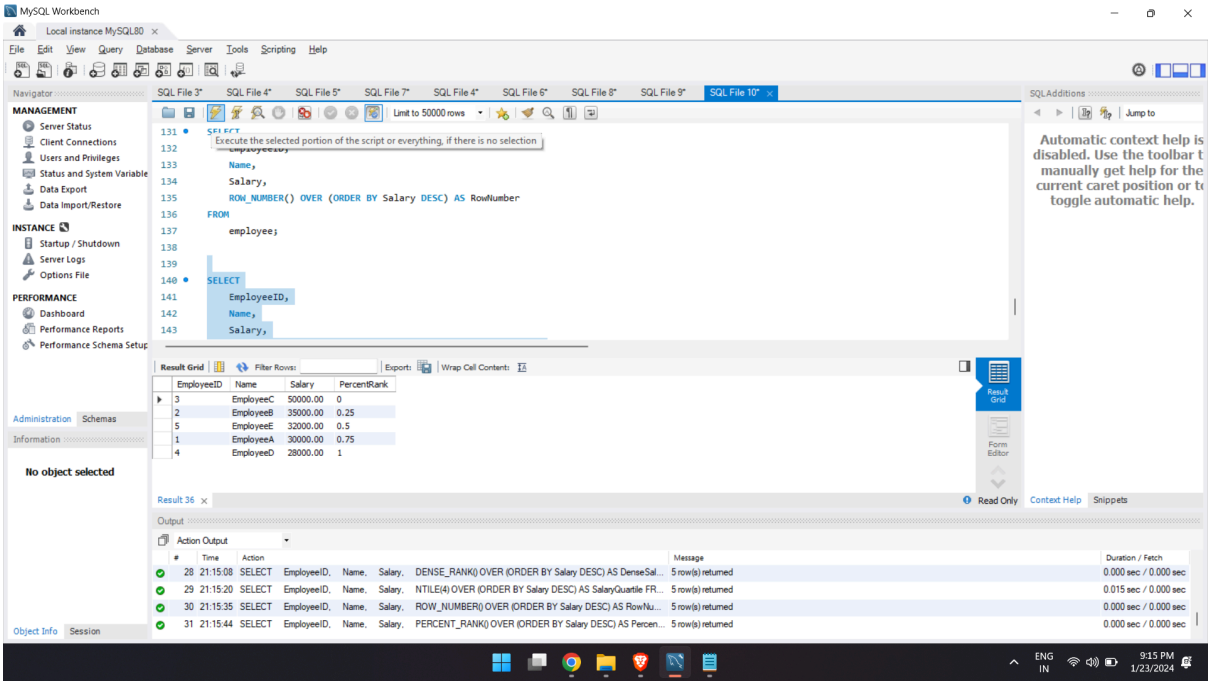
RANK() :



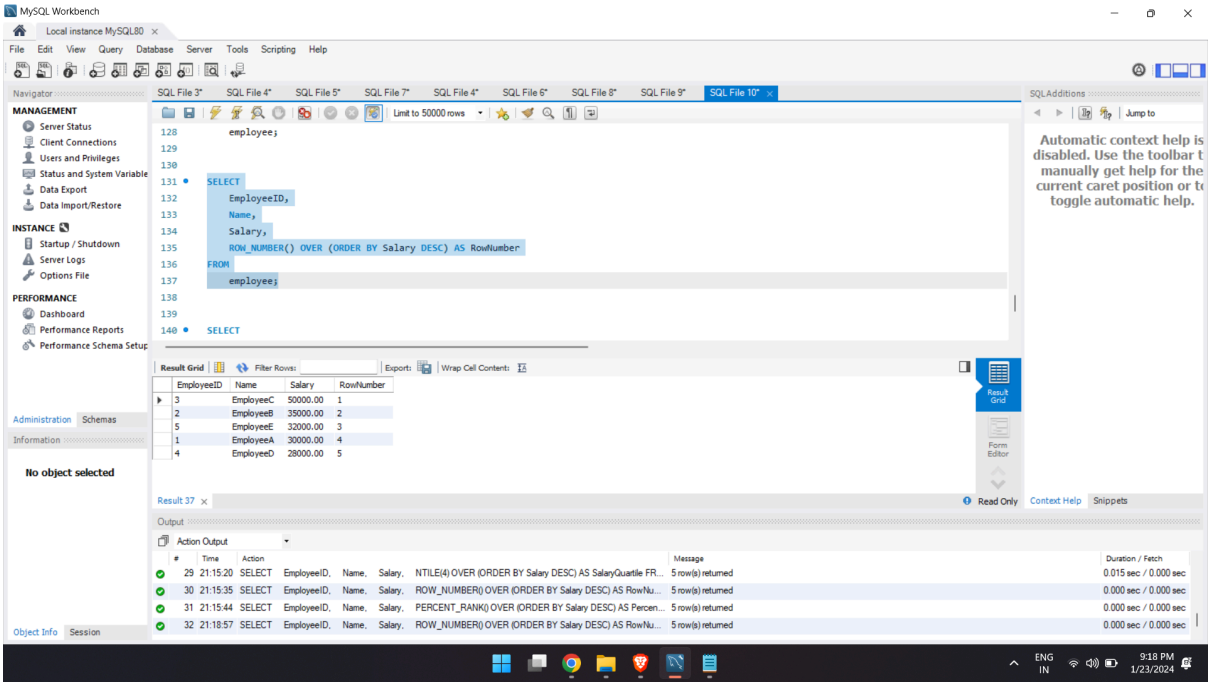
DENSERANK() :



NTILE() :



ROW_NUMBER() :



PERCENT_RANK() :