Exercise 1.

Problem Statement:

Modify the table Associate\_Status to include following two columns:

Column Name: Batch\_Id

Details: Batch Id from batch\_Info

Data Types: Character

Size: 20

Column Name: Trainer\_Id

Details: Trainer Id from trainer\_Info

Data Types: Character

Size: 20

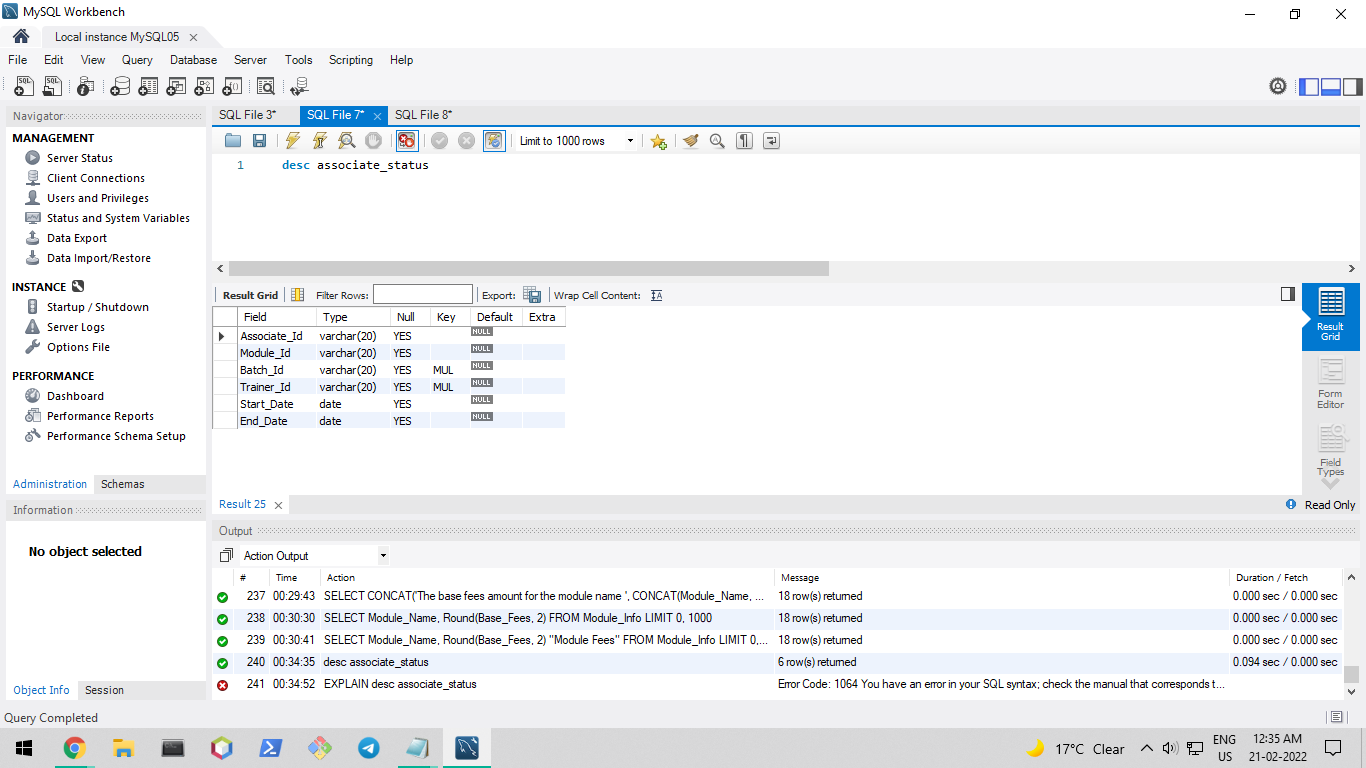
Ans.

ALTER TABLE Associate\_Status

ADD CONSTRAINT FOREIGN KEY (Batch\_Id) REFERENCES Batch\_Info (Batch\_Id);

ALTER TABLE Associate\_Status

ADD CONSTRAINT FOREIGN KEY (Trainer\_Id) REFERENCES Trainer\_Info (Trainer\_Id);



Problem Statement:

Modify two columns data types of the table Associate\_Status as follow

Start\_Date

Desired Type: Date

End\_Date

Desired Type: Date

Deliverables Expected:

New Columns in batch\_Info & trainer\_Info & changed column data types

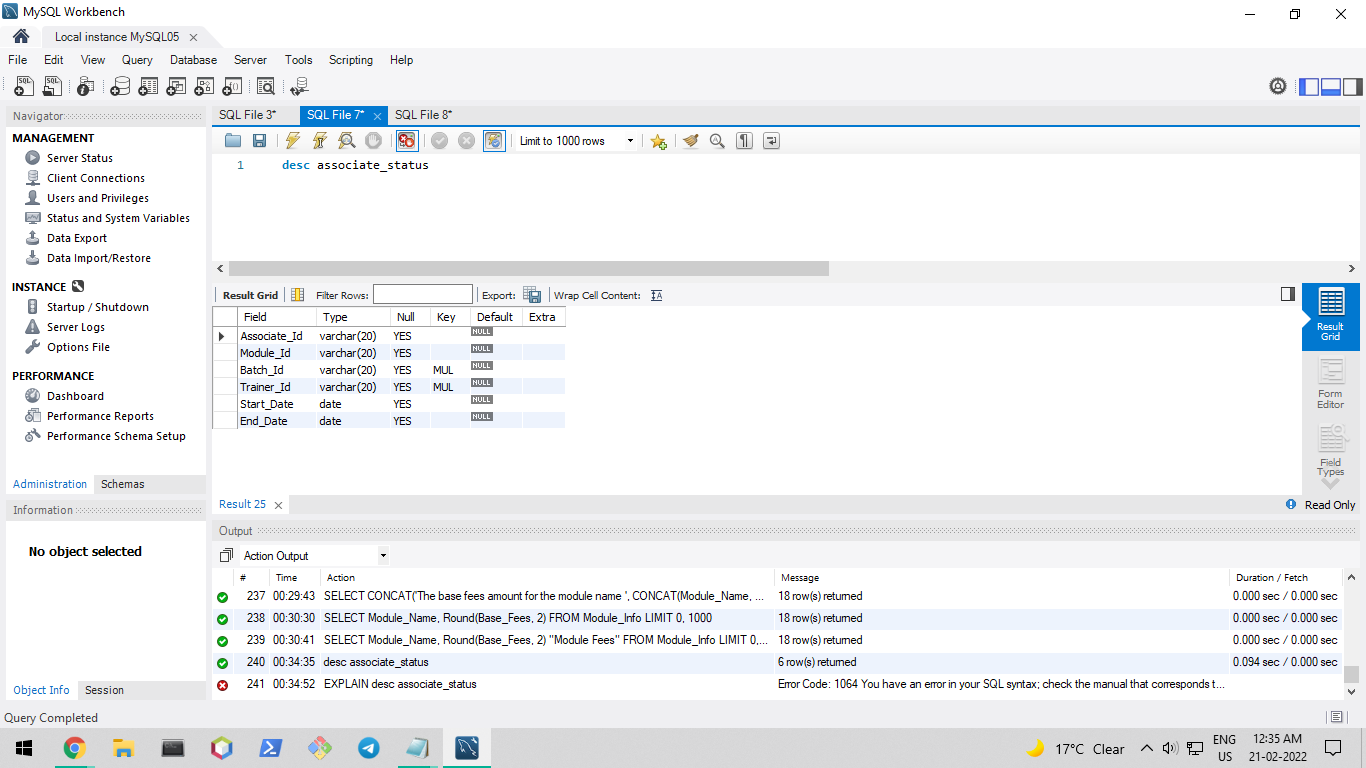
Ans.

ALTER TABLE Associate\_Status

MODIFY Start\_Date date;

ALTER TABLE Associate\_Status

MODIFY End\_Date date;



Exercise 2.

Problem Statement:

Insert below details into table:

Ans.

/\*Step 1. Copy the date into an editor and save with "txt" extension.

Step 2. Run the following commands to load data into the table.

P.S: Question\_Text column in Questions table has been enclose in "" for ease of loading.\*/

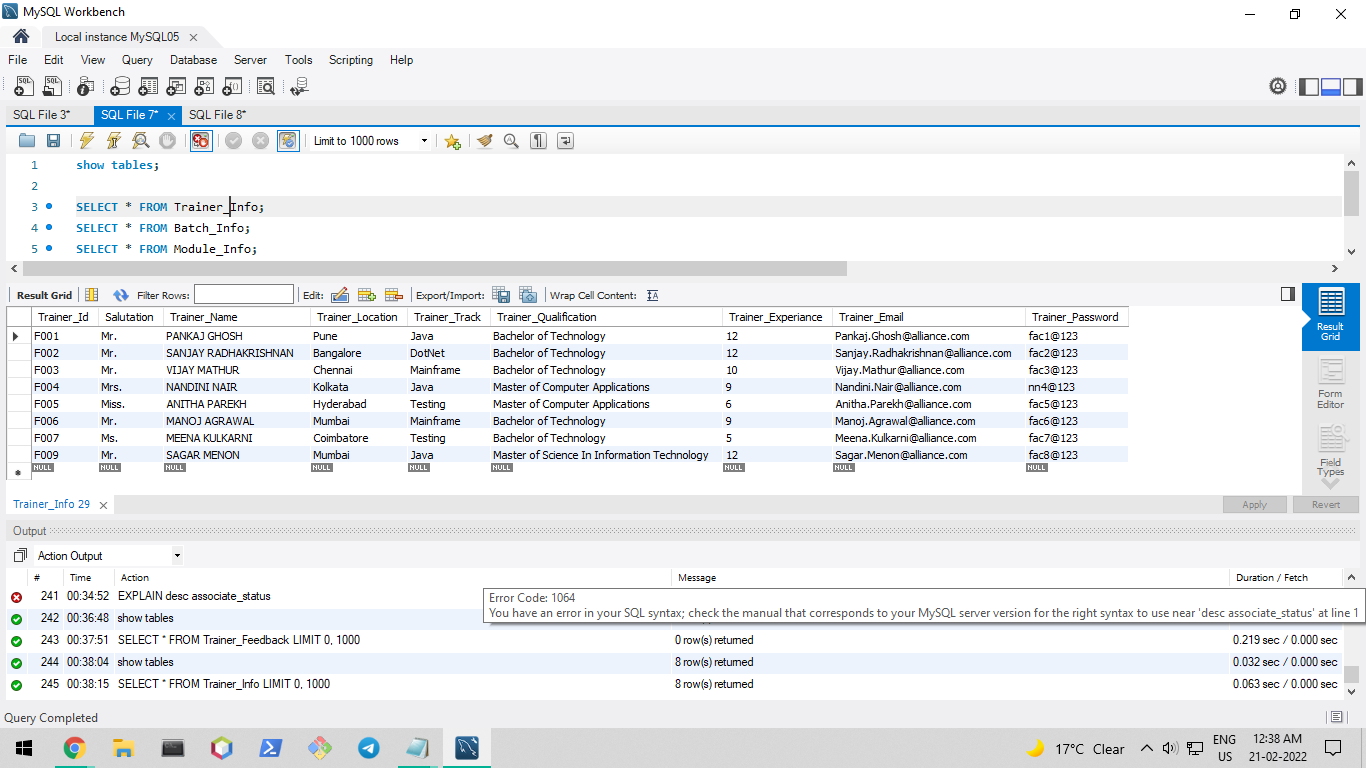
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Trainer\_Info.txt'

INTO TABLE Trainer\_Info

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;



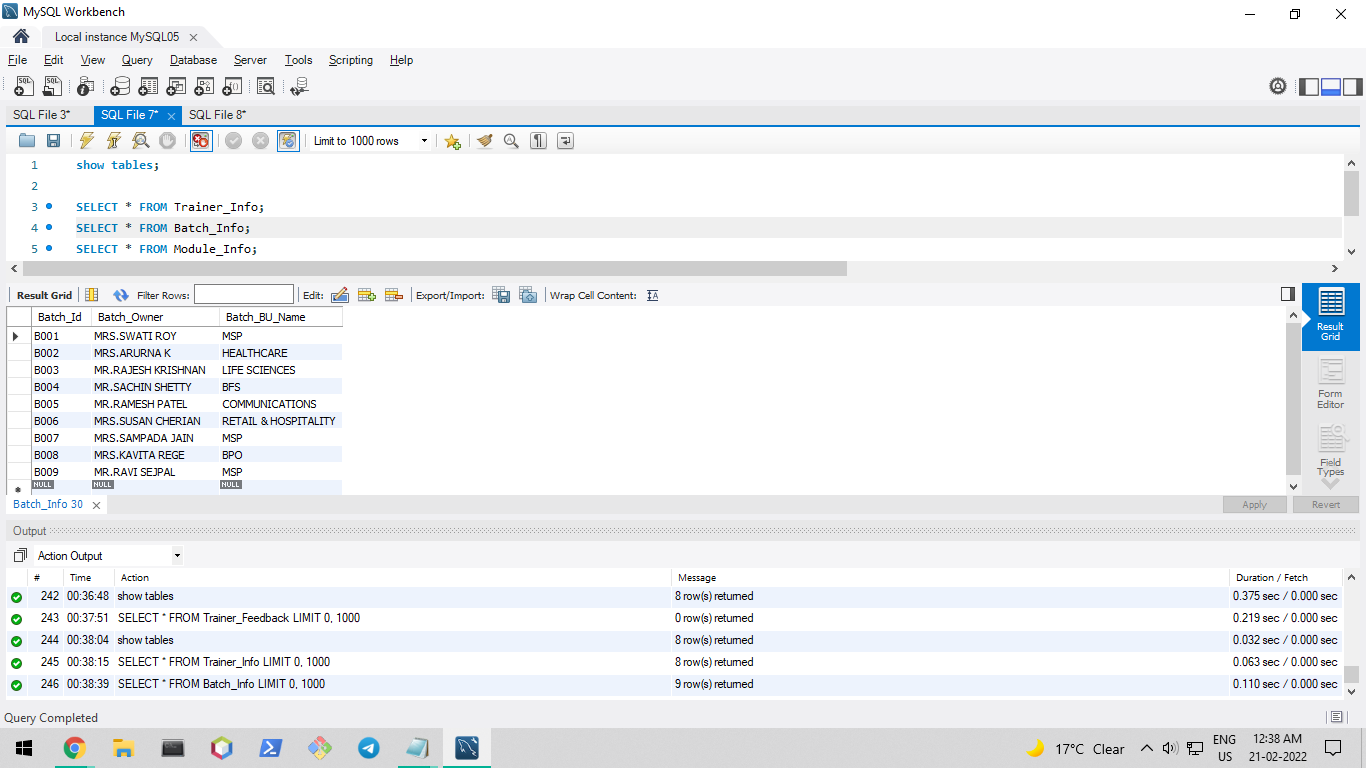
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Batch\_Info.txt'

INTO TABLE Batch\_Info

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;



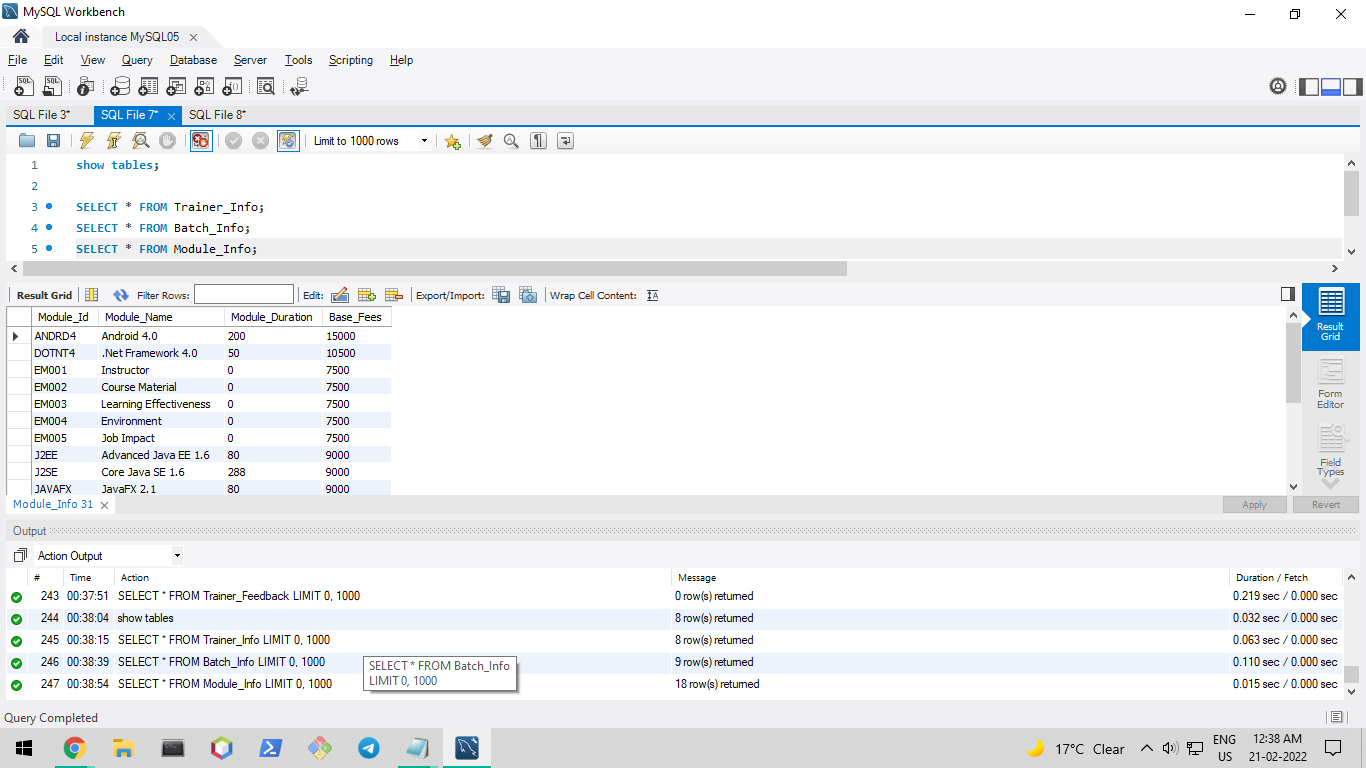
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Module\_Info.txt'

INTO TABLE Module\_Info

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;



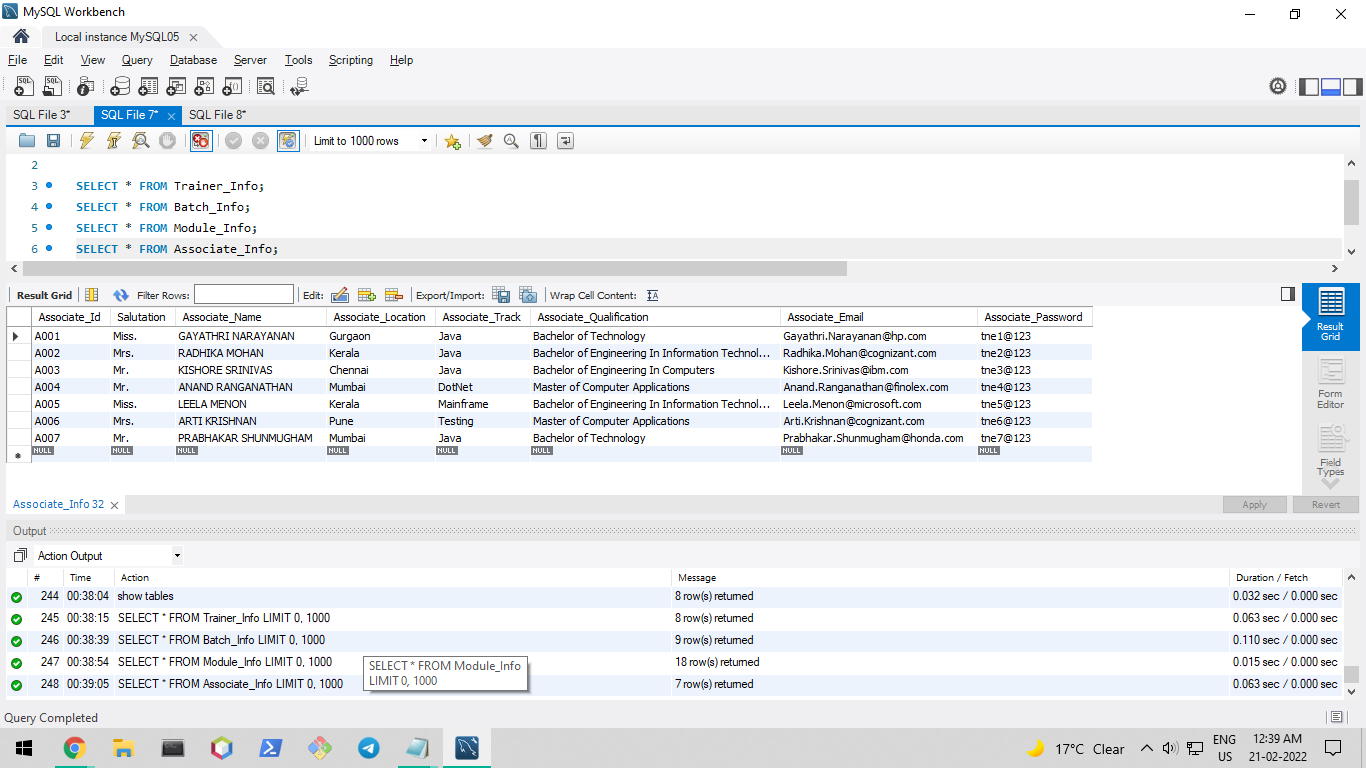
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Associate\_Info.txt'

INTO TABLE Associate\_Info

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;



LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Questions.txt'

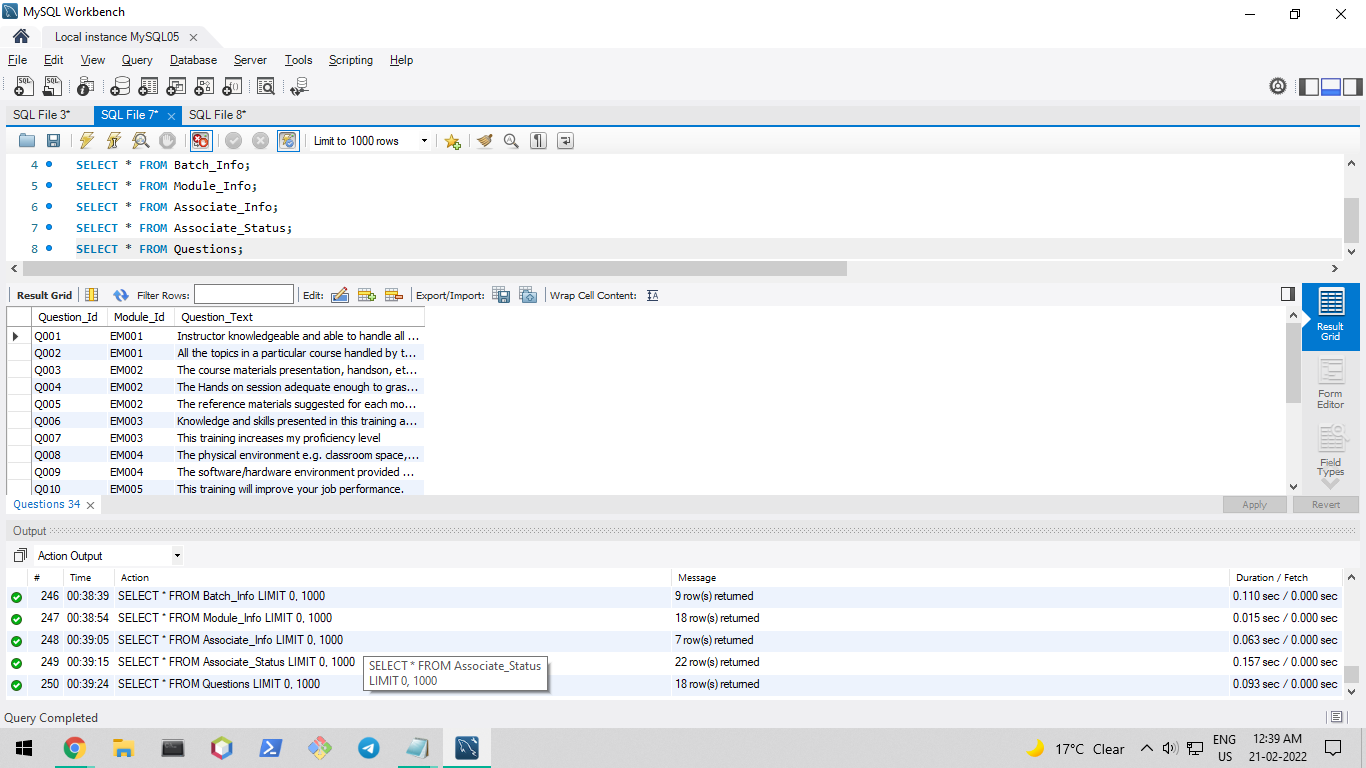
INTO TABLE Questions

FIELDS TERMINATED BY ','

ENCLOSED BY '"'

LINES TERMINATED BY '\r\n'

IGNORE 1 ROWS;



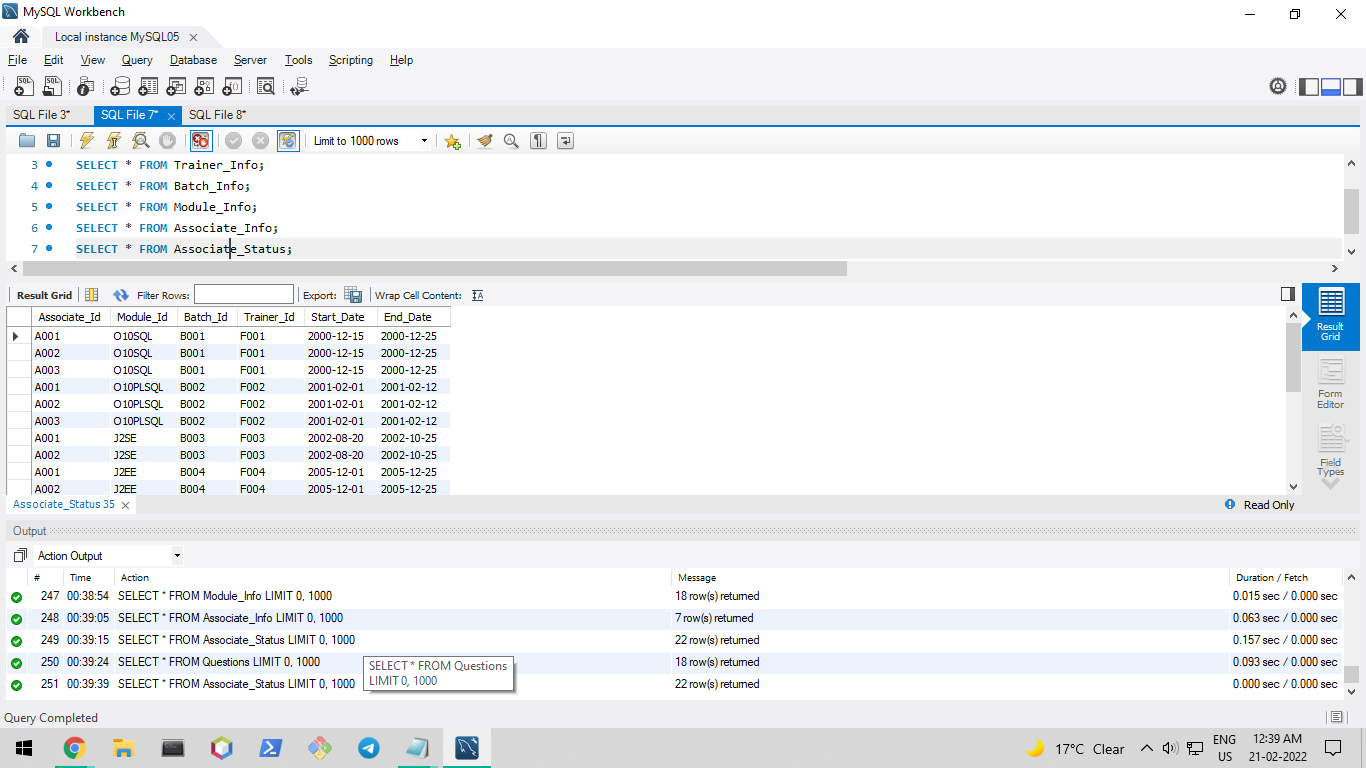
LOAD DATA INFILE 'C:/ProgramData/MySQL/MySQL Server 8.0/Uploads/Associate\_Status.txt'

INTO TABLE Associate\_Status

FIELDS TERMINATED BY ','

LINES TERMINATED BY '\n'

IGNORE 1 ROWS;



Exercise 2.1

Problem Statement:

Change the password of trainer F004 from fac4@123 to nn4@123

Deliverables Expected:

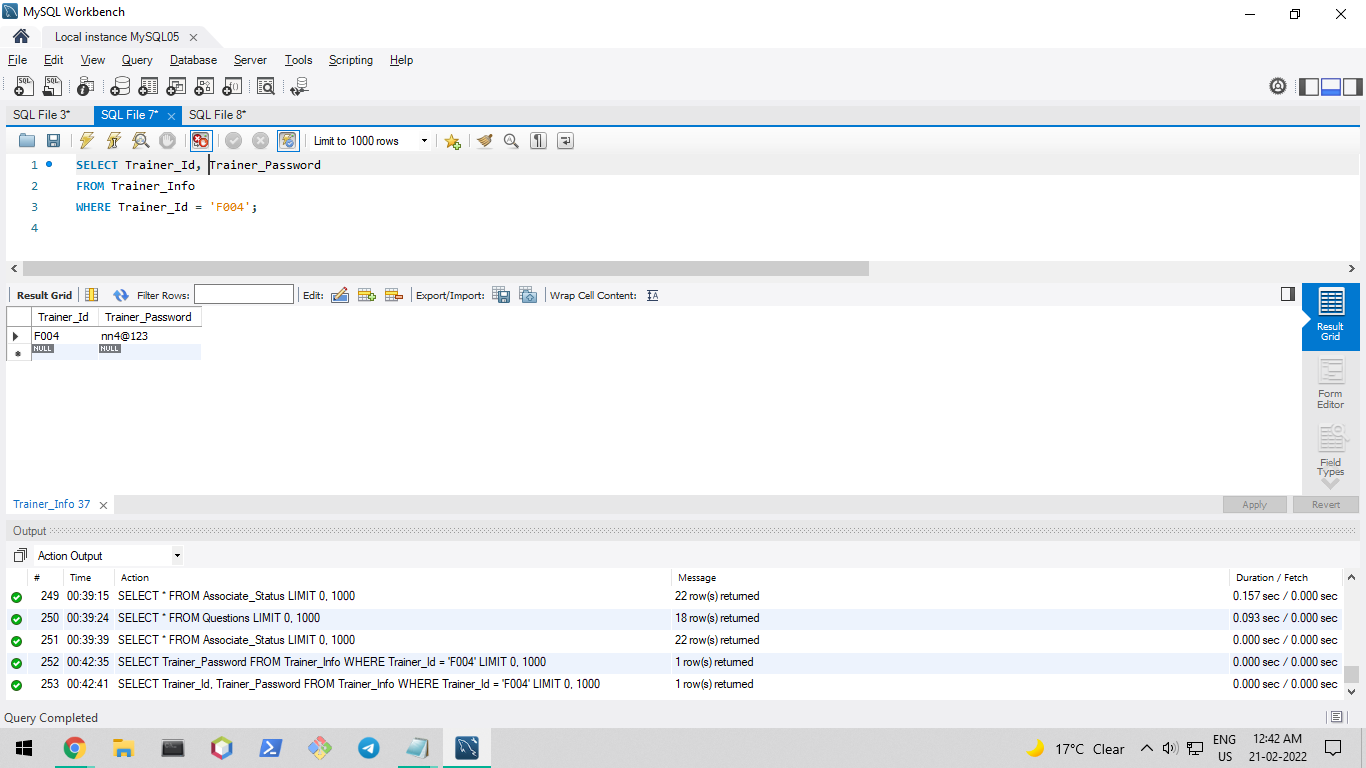
Updated password of trainer F004

Ans.

UPDATE Trainer\_Info

SET Trainer\_Password = 'nn4@123'

WHERE Trainer\_Id = 'F004';



Problem Statement:

Remove following record form associate\_status table

A003,J2EE,B004,F004,2005-12-1,2005-12-25

Deliverables Expected:

Removed record from associate status.

Ans.

DELETE FROM Associate\_Status

WHERE Associate\_Id = 'A003'

and Module\_Id = 'J2EE'

and Batch\_Id = 'B004'

and Trainer\_Id = 'F004'

and Start\_Date = '2005-12-01'

and End\_Date = '2005-12-25';

Problem Statement:

Fetch first five trainers who have maximum years of experience & display there details.

Deliverables Expected:

Top five experience trainers.

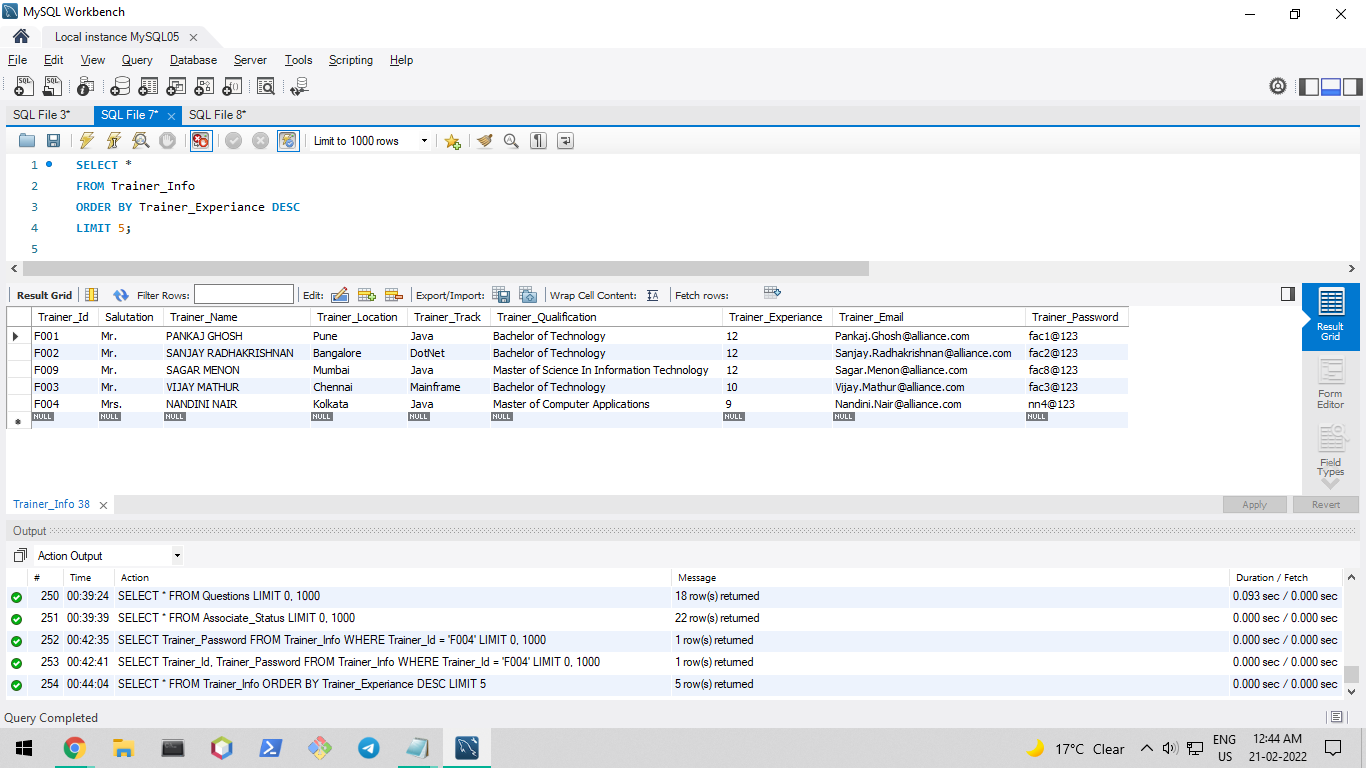
Ans.

SELECT \*

FROM Trainer\_Info

ORDER BY Trainer\_Experiance DESC

LIMIT 5;



Problem Statement:

Begin transaction & insert below to records into Login\_Details

'U001' Admin1@123

'U002' Admin2@123

Perform rollback operation & verify whether any records are inserted in table or not.

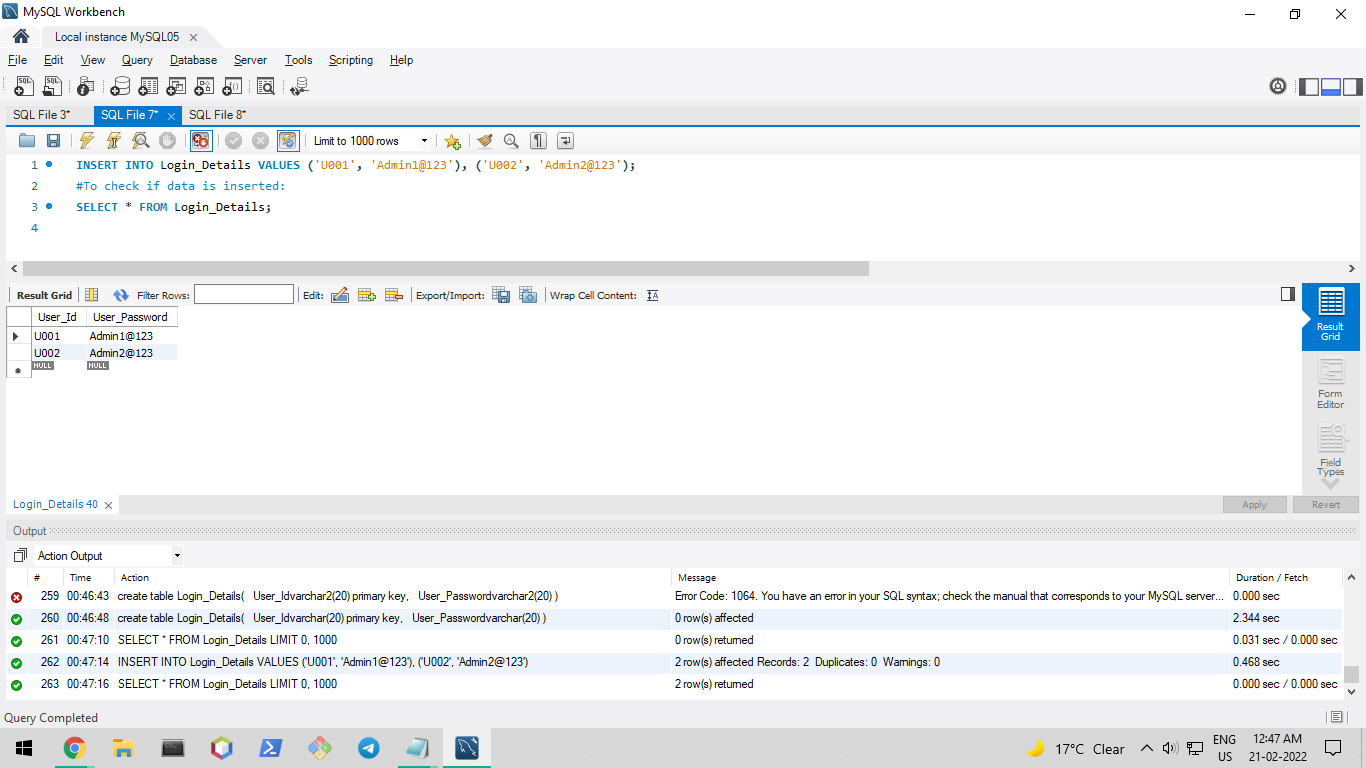
Ans.

#To insert data:

INSERT INTO Login\_Details VALUES ('U001', 'Admin1@123'), ('U002', 'Admin2@123');

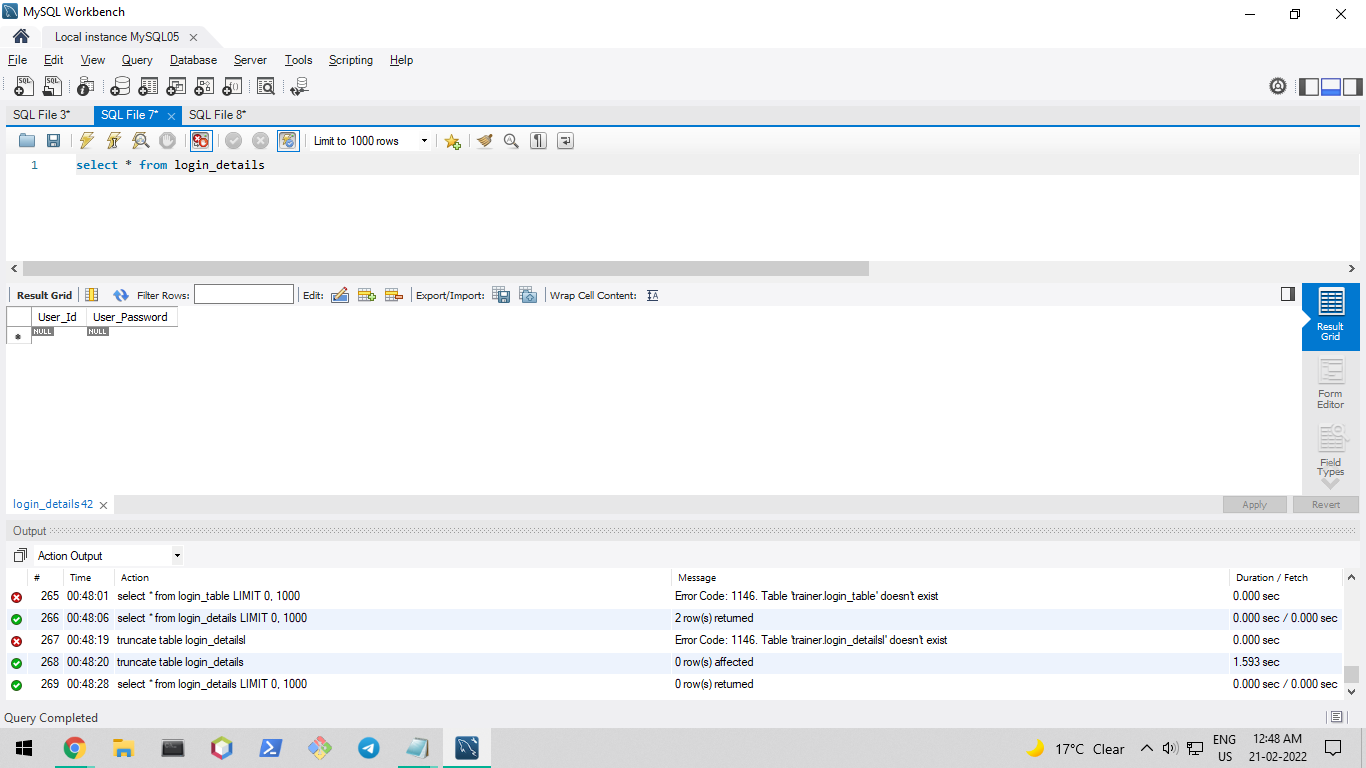
#To check if data is inserted:

SELECT \* FROM Login\_Details;



#To rollback

rollback;



#If data has not been committed then Login\_Details is empty after rollback.

Problem Statement:

Create a dummy user in database. Grant create & select table privilege to him/her.

Repeat the above all queries using login credentials of newly created user.

Revoke the privilege assigned to this newly created user.

Ans.

#create user

CREATE USER 'newuser'@'localhost' IDENTIFIED BY 'password';

#grant all priveleges on Trainer Database

GRANT ALL PRIVILEGES ON Trainer.\* TO 'newuser'@'localhost';

#view grants for newuser

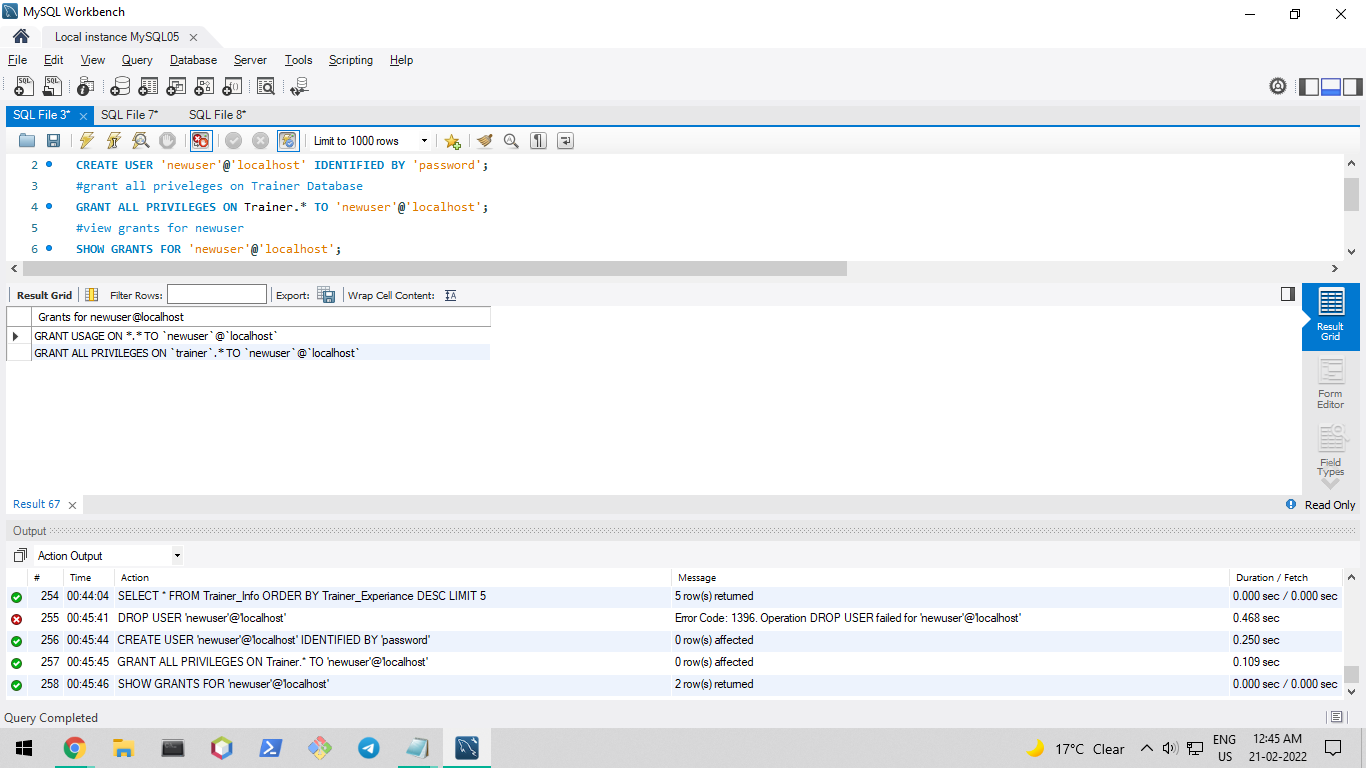
SHOW GRANTS FOR 'newuser'@'localhost';

#revoke all priveleges

REVOKE ALL PRIVILEGES ON Trainer.\* FROM 'newuser'@'localhost';

#drop newuser

DROP USER 'newuser'@'localhost';



Problem Statement:

Remove table Login\_Details from database.

Ans.

DROP TABLE Login\_Details;