Author: Ngu Hui En

<u>Assignment of Course 4 (Coursera – IBM Data Engineering Professional Certificate)</u>

Task 1

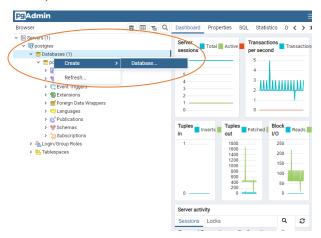
Answer: staff, sales_outlet, sales_transaction, customer, product

Task 2

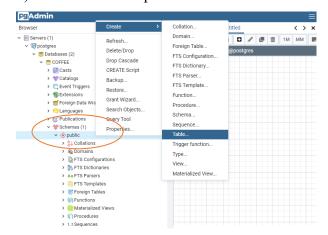
Attributes in sales_transaction = transaction_id, transaction_date, transaction_time, sales_outlet_id, staff_id, customer_id, product_id, quantity, price

Steps:

1) Create database



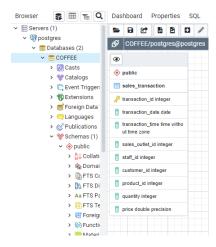
2) Go to Schema - public - Create table



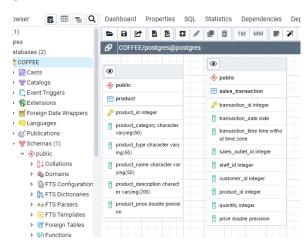
- 3) Fill in details for each table
- 4) Create ERD by right clicking COFFEE, then create ERD

Answer:

3A

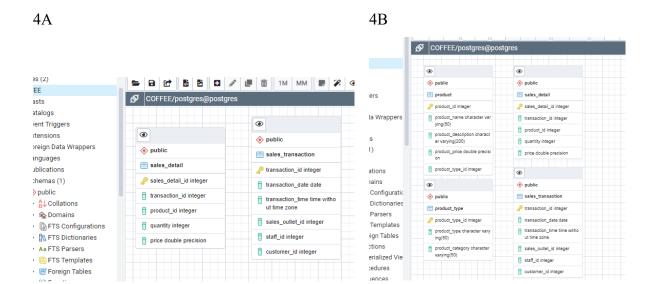


3B



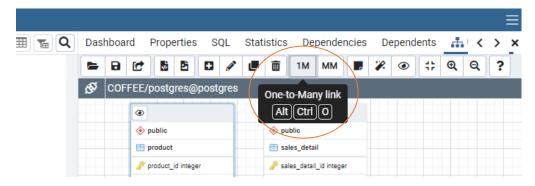
Answer:

- 1) Same procedure as task 3 to add table
- 2) Delete the column by extend the Schemas -> public -> Tables -> Columns -> Right click and select Drop column



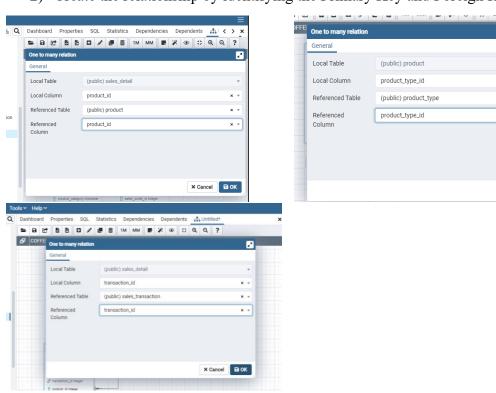
Steps:

1) Select the relationship (1M/MM)



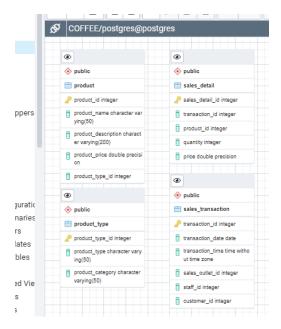
2) Create the relationship by identifying the Primary Key and Foreign Key

X Cancel ☐ OK

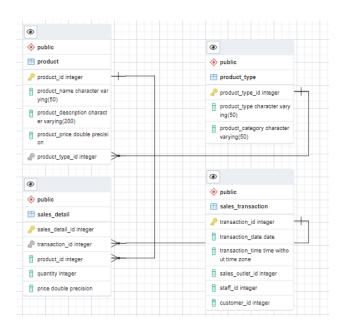


Answer:

5A



5B



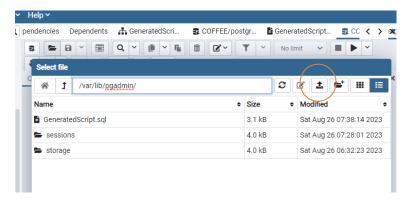
1) Click Generate SQL function



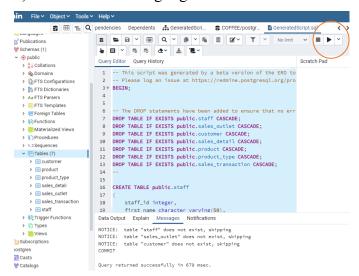
2) Open to load file



3) Upload file and Select the uploaded file



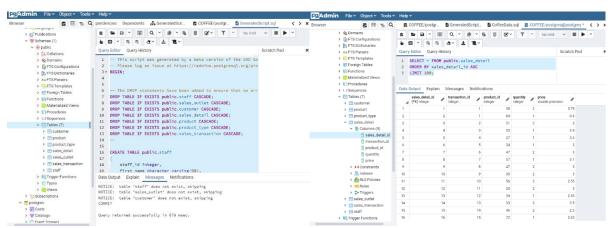
4) Run the code – Highlight all and click Run



- 5) Repeat for CoffeeData.sql
- 6) To view the first 100 rows, right click sales_detail table -> view/edit data -> first 100 rows

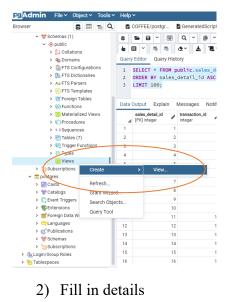
Answer:

6A 6B

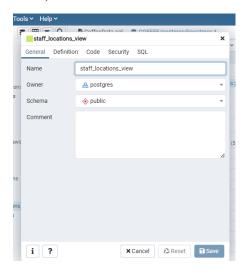


Steps:

1) Create View



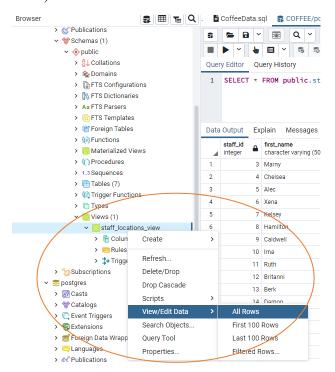
2) Fill in details



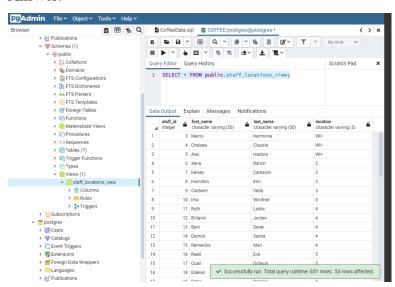
3) Enter the code

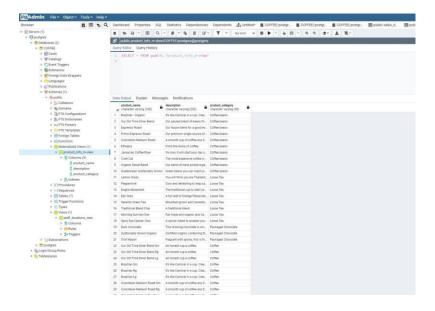


4) View all rows



Answer:





Task 9

