Java module 4

Exercises Day 2

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1.1 - Create	Create database
Instructions	Using pgAdmin, create a new PostgreSQL database named exercise_db
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1.2 - Create	Create table
Instructions	Using pgAdmin, in the exercise_db database, create a table named products with the following columns: • product_id as an integer (primary key) • product_name as a variable character string • price as a numeric type • available as a boolean • launch_date as a date.
1.3 - Create	Create table
Instructions	Using pgAdmin, create another table called orders that includes a foreign key reference to products . Each order should include: • an order ID • the reference to the product that was ordered • the date of the order • the quantity of the order
1.4 - Insert	Insert data
Instructions	Using pgAdmin, insert sample data into products and orders tables.
1.5 - Update	Update data
Instructions	Using pgAdmin, increase the price of all products by 10%.
1.6 - Rename	Update the table structure
Instructions	Using pgAdmin, rename the orders table to customer_orders . Rename the column available to is_available in the products table.
1.8	Add a new column description to the products table.
1.9	Change the data type of the price column in the products table from NUMERIC to FLOAT.

1.10	Create a table named employees with a unique constraint on the email column.
1.11	Create a table named departments with a CHECK constraint that ensures the budget is greater than zero.
1.12	Add a status column to the employees table that defaults to 'Active'.
1.13	Increase the budget by 10% for departments with a budget less than \$5000.
1.14	Delete employees who are marked as 'Inactive'.
1.15	Create a project_assignments table where both project_id and employee_id together form the primary key.
1.16	Modify the employees table to ensure that the name column cannot contain null values.
1.17	Rename the database exercise_db to new_exercise_db.

2.1 - Insert	Insert data
Instructions	Write a Java program to insert a new actor into the actor table.
Expected output	After executing the program, verify that the new row was added to the actor table using pgAdmin.

2.2 - Update	Update data
Instructions	Write a Java program to update an actor's name in the actor table.
Expected output	After executing the program, verify that the row was updated in the actor table using pgAdmin.

2.3 - Delete	Delete data
Instructions	Write a Java program to delete an actor in the actor table.
Expected output	After executing the program, verify that the row was deleted from the actor table using pgAdmin.