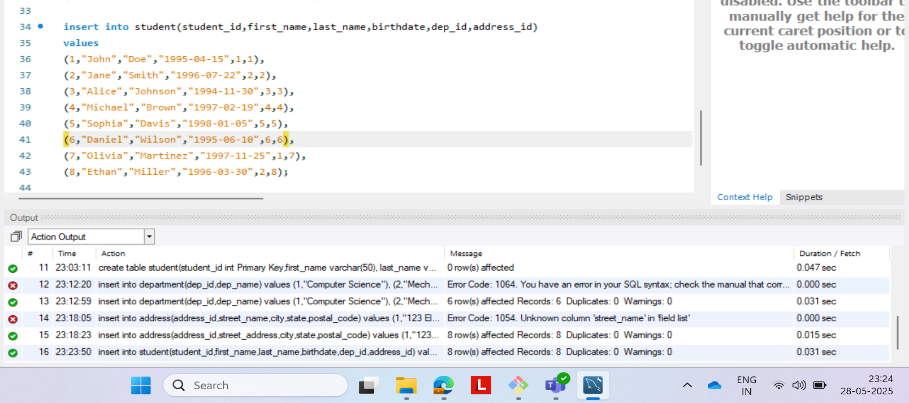
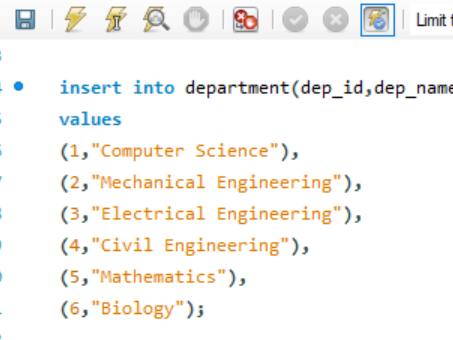
1. Create the tables below in the database. Use foreign keys and primary keys as required.
   1. Create a table called as student with the following columns student\_id, first\_name, last\_name ,birthdate , department\_id ,address\_id .
   2. Create Address table with following columns address\_id , street\_address, city, State, postal\_code
   3. A screenshot of a computer

      AI-generated content may be incorrect.Create department table department\_id, department name. Make sure you are using the right data type against all the columns.
2. A screenshot of a computer

   AI-generated content may be incorrect.Use Sample data from [sampledata.txt](https://hs2solutions-my.sharepoint.com/:t:/g/personal/iqbal_sarkar_bounteous_com/ET8VdCEdjTJNoaWCrFPFxfwBq9bpLp9HkT7ycwnltym8qA?e=xTKw8M) to insert data into the database



1. Write a query to find the total number of students.

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1. Write a query to find which department john belongs to.

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1. List All Departments with Their Number of Students (Including Departments with No Students)

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1. Select all students with their department and address.

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1. Find all students who are in the 'Computer Science' department

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1. Update Jane’s city name to New York.

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1. Delete a student from the student table.

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AI-generated content may be incorrect.

1. Select all students with their department and address in New York.

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1. Count how many students are in each department

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AI-generated content may be incorrect.

1. Find students who live in 'Springfield'

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1. Select students whose birthday falls in February

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1. Get the department and address details for a specific student, example john

A screenshot of a computer

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1. Find all students who are born within 1995 to 1998

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1. List all students and their corresponding department names, sorted by department

A screenshot of a computer program

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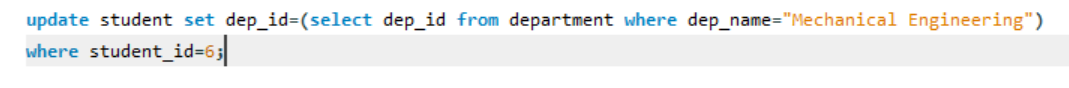
1. Find the number of students in each department who are living in 'Champaign'

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1. Retrieve the names of students who live A screenshot of a computer

   AI-generated content may be incorrect.on 'Pine' street
2. Update the department of a student with student\_id = 6 to 'Mechanical Engineering'



1. Find the student(s) who live in the city 'Chicago' and are in the 'Mathematics' department

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1. List all students who have an address in 'Urbana' or 'Peoria'

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1. Find the student with the highest student\_id

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1. Find all students who are not in the 'Computer Science' department

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1. Count the total number of addresses in the 'Champaign' city

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1. Find the name of the student who lives at '520 Pine Rd'

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1. Get the average age of students in the 'Electrical Engineering' department

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1. List the students, their department, and the city where they live, but only for those in departments starting with 'M'

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1. Delete a student from the 'Mechanical Engineering' department

A close-up of a computer code

AI-generated content may be incorrect.

Download [order.sql](https://hs2solutions-my.sharepoint.com/:u:/g/personal/iqbal_sarkar_bounteous_com/ERszToxU3wJNo1HXV0zhiNgBMx8PQdMY207902wVY8Mnhg?e=qqdFSF)

Open PG Admin and open query tool and select any database of your choice.

Click on “Open file” and select [order.sql](https://hs2solutions-my.sharepoint.com/:u:/g/personal/iqbal_sarkar_bounteous_com/ERszToxU3wJNo1HXV0zhiNgBMx8PQdMY207902wVY8Mnhg?e=qqdFSF) from your device and execute it.

Questions:

1. Retrieve All Orders with Their Customer Details and Current Status

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1. Get the Total Value of Orders for a Given Customer in a Specific Time Period

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1. Find the Most Expensive Order by Customer

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1. Find the Total Revenue for Each Product Based on Orders

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1. Write a query to retrieve the order ID, customer ID, and the total amount of each order. If the total amount is null, display '0.00' instead.

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AI-generated content may be incorrect.

1. Retrieve the Order History of a Specific Customer Along with Product Details

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1. Get the Average Order Value Per Customer in the Last 30 Days.

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1. Get the Top 5 Products with the Highest Number of Orders.

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1. Get the Customers Who Have Not Placed Any Orders in the Last 60 Days

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1. List the Orders with Products Ordered More Than Once, Sorted by Order Date

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AI-generated content may be incorrect.

1. Retrieve the Number of Orders and Total Revenue for Each Status

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1. Find Customers Who Have Ordered More Than a Specific Product (e.g., "Laptop")

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1. Find the Products That Have Never Been Ordered

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1. Get the Total Quantity of Products Ordered in the Last 7 Days

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1. Create a view named product\_details that includes all columns from the product table.



1. Create a view named order\_summary that includes the order\_id, customer\_id, order\_date, total\_amount, and status\_name (from the status table) for each order.

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