

**AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)**

**Department of Computer Science  
Faculty of Science &Technology (FST)  
Fall 21\_22  
ADVANCE DATABASE MANAGEMENT SYSTEM**

**Section: C**

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**System Summary:** The purpose of the project is to deliver authentic Razer products (which is shipped from the US) through a user-friendly, strong security, reliable purchase system which will be provided through the webpage Razer Store Bangladesh. Therefore, not only gamers, office-workplace users but also the people who seek for authentic razer products at a reasonable price can purchase without any hesitation or discomfort. The webpage is secured through proper PHP-validation, JavaScript and the resources are protected via appropriate Session-Cookie implementation. Lastly to prevent SQL injection prepared statement was implemented.

**Main Functionalities:**

* User can comment and can view comment other user’s comment in the same page without reloading the page. Here Ajax is used and from SQL database comment was limited by two in descending order.
* Because of the JavaScript client server implementation user cannot send blank in the forms
* Can view the products in the store and can add products to the cart which gets updated and can select the desired quantity of the products which user wants to purchase by using SESSION the Cart Items and Quantity stays updated and remains in the cart index in till checkout has been made.

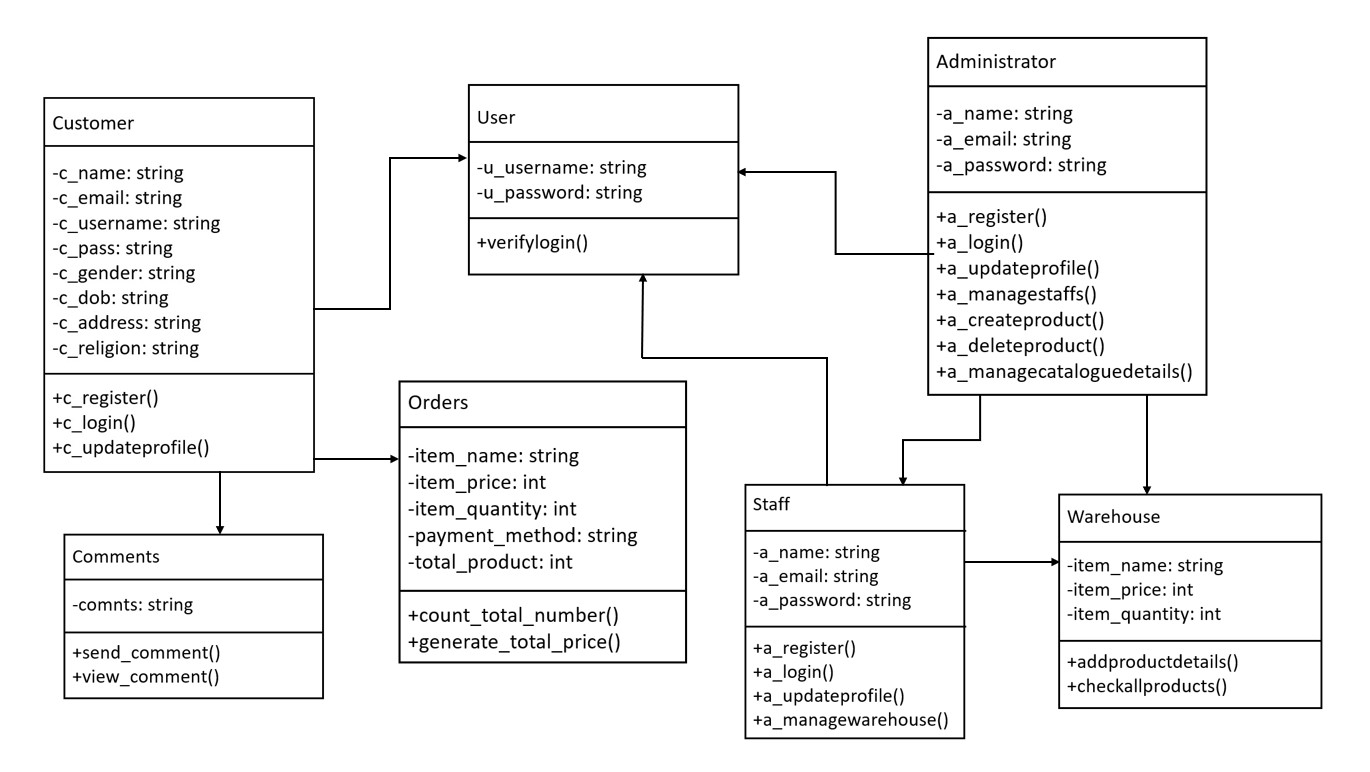
User can check out his payment where he can pay total amount of the product via cash on delivery.

**ERD Diagram:**

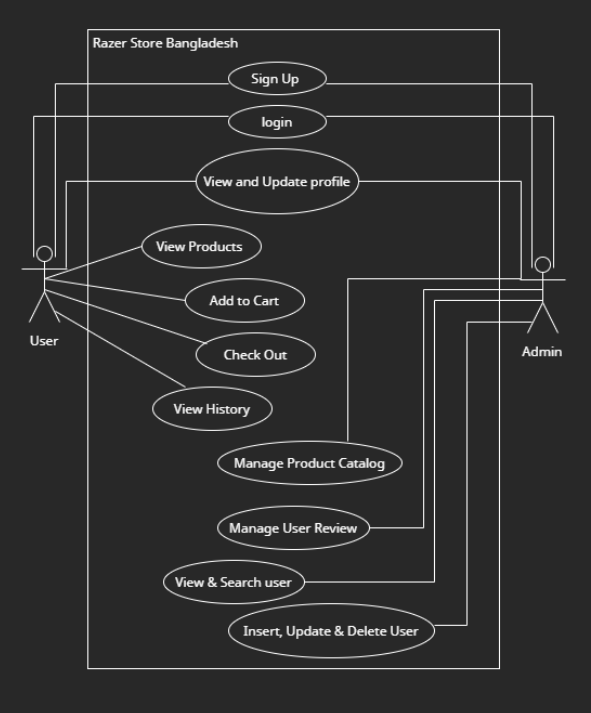
Diagram

Description automatically generated

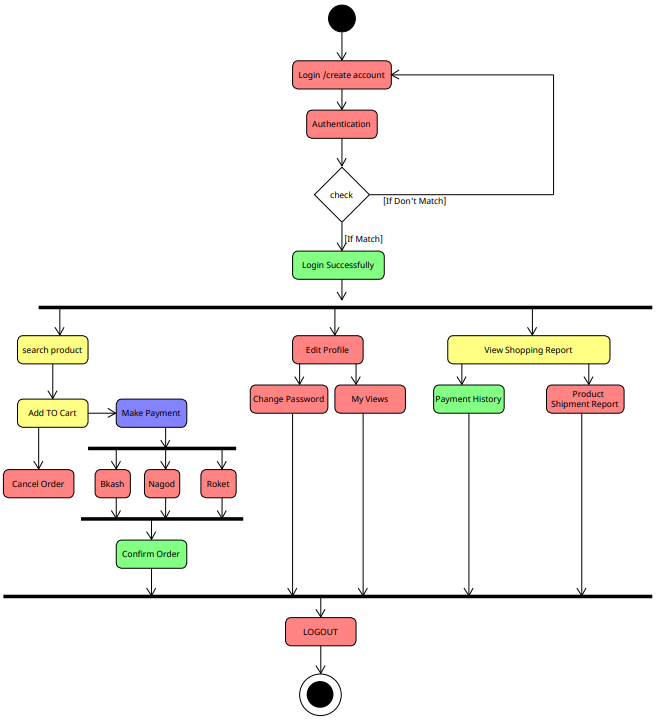
**Class Diagram:**

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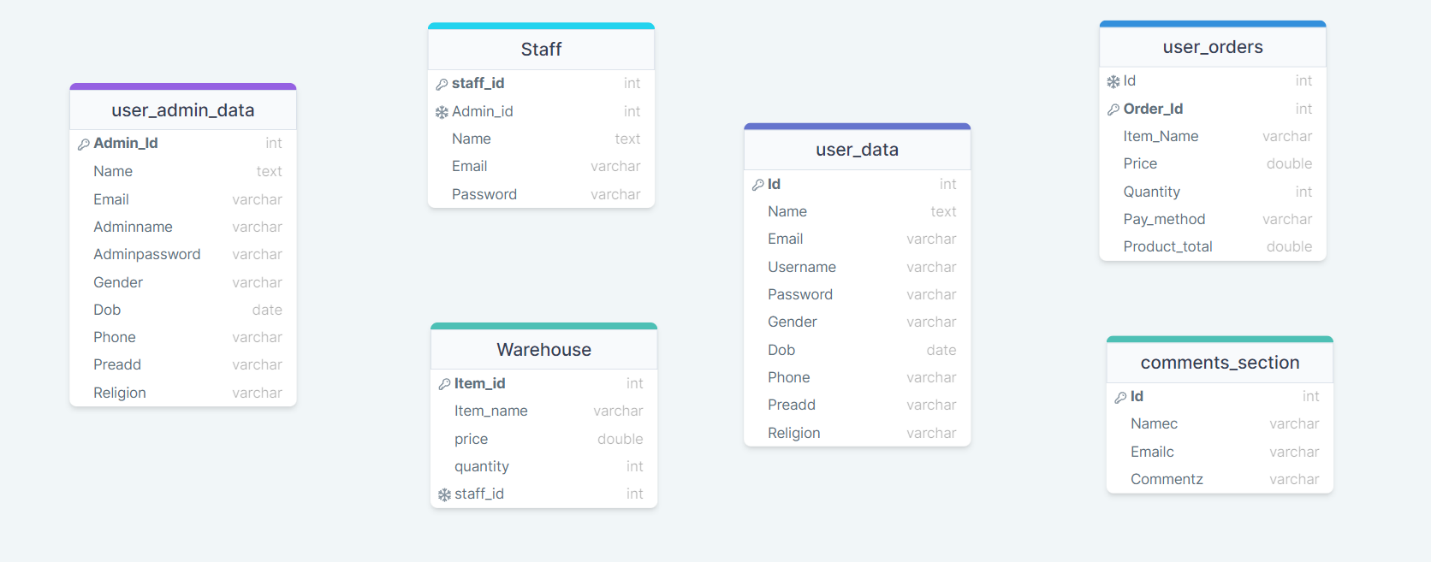
**Use Case Diagram:**

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**Activity Diagram:**

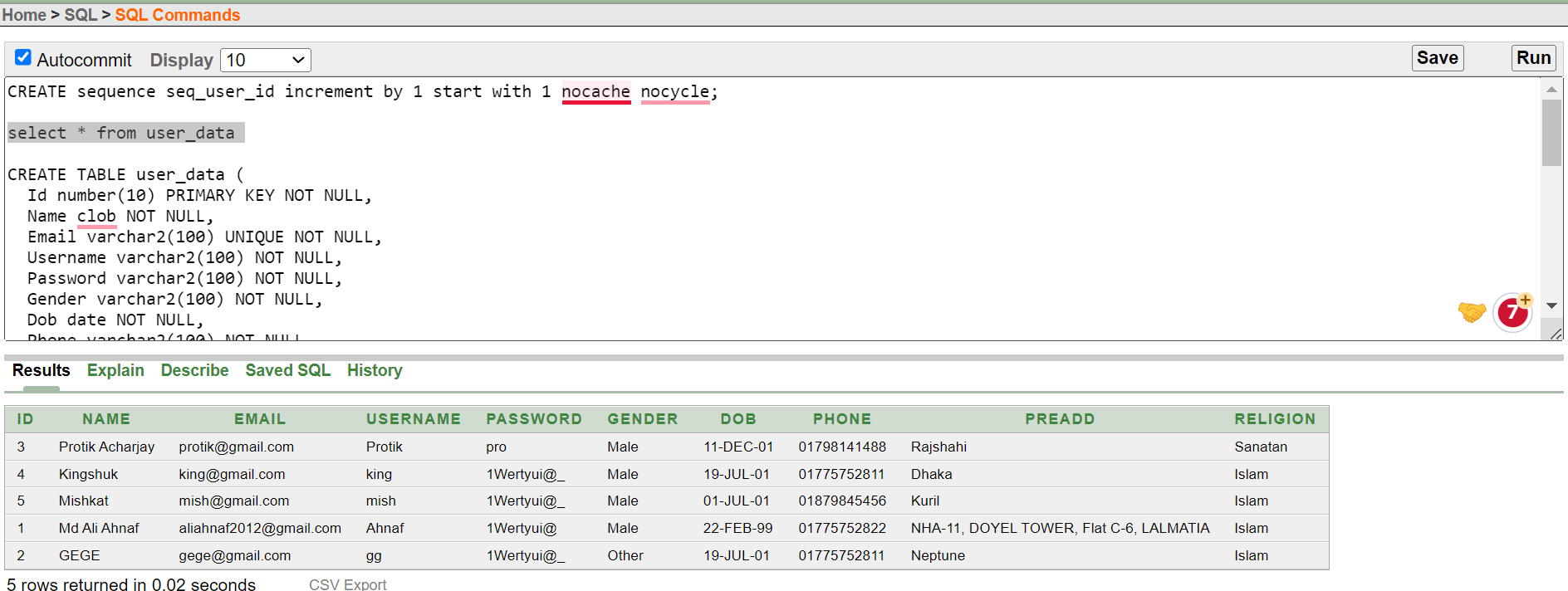
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**Schema Diagram:**

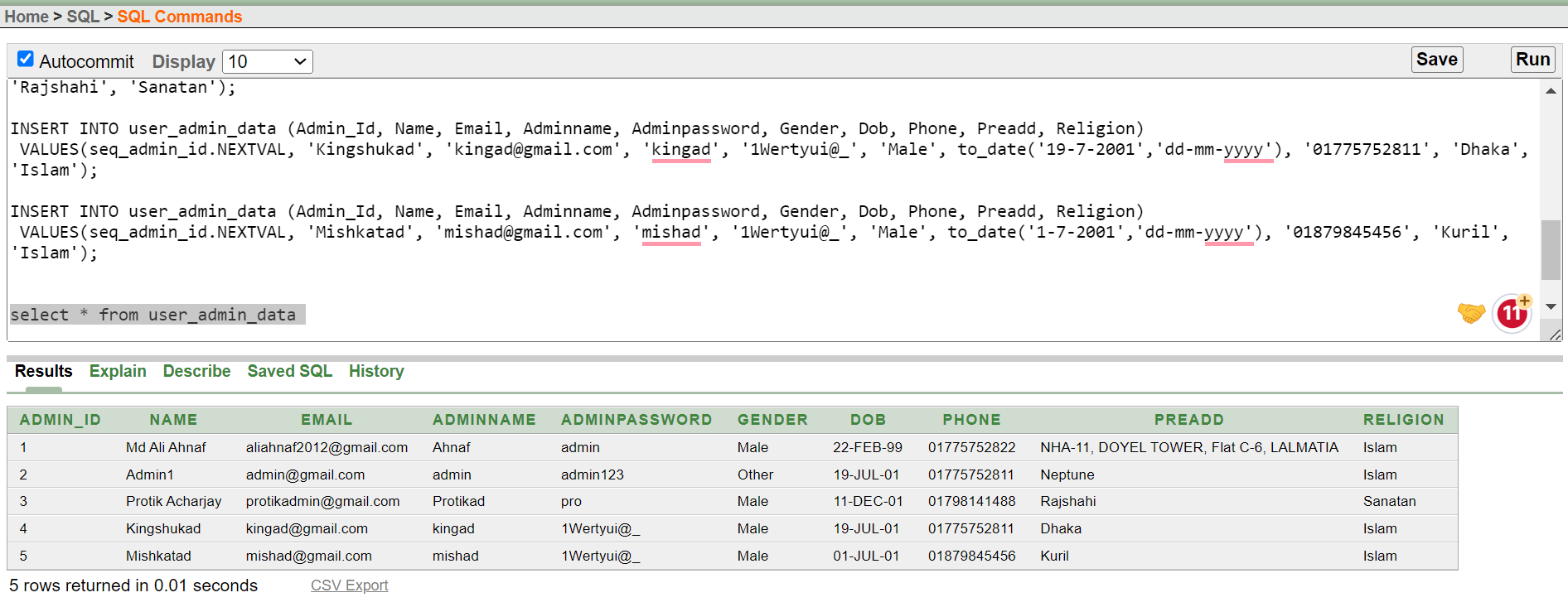
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**Screenshots of Sample Data:**

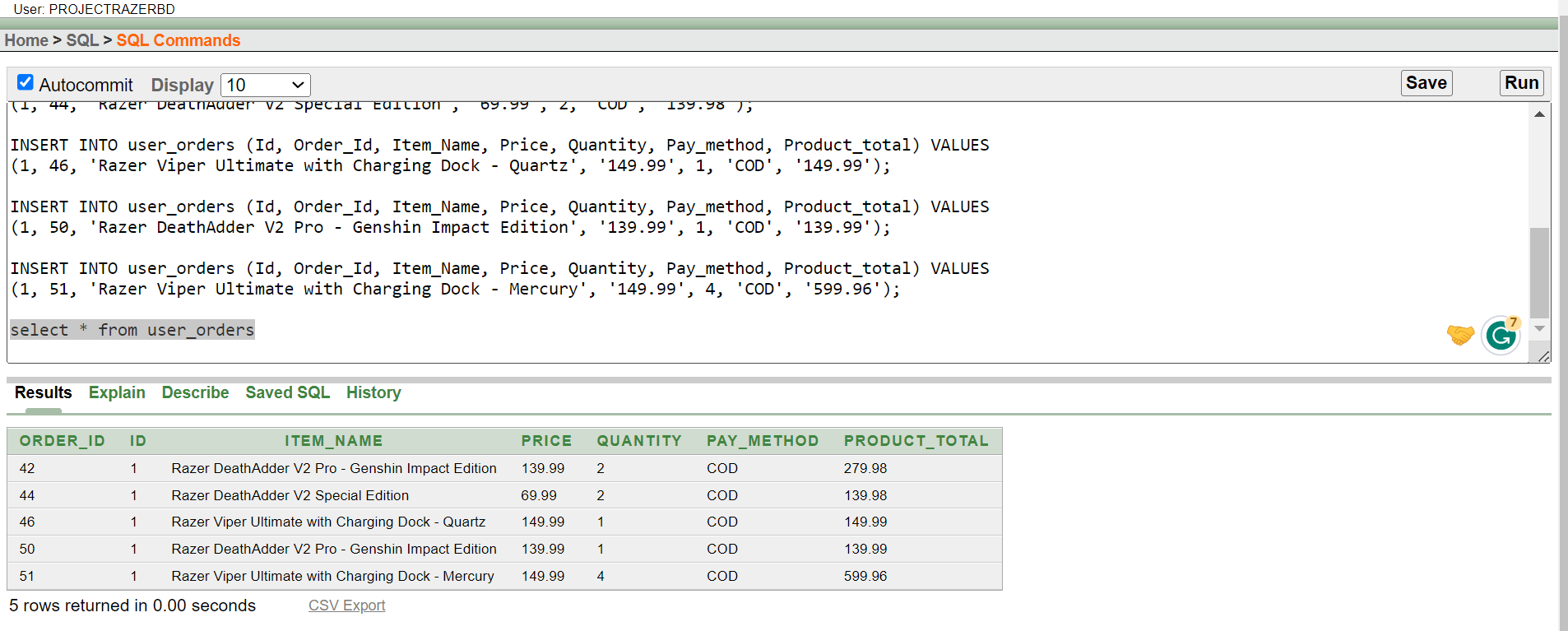
**User\_Data Table:**

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**User\_Admin\_Data Table:**



**User\_Orders Table:**

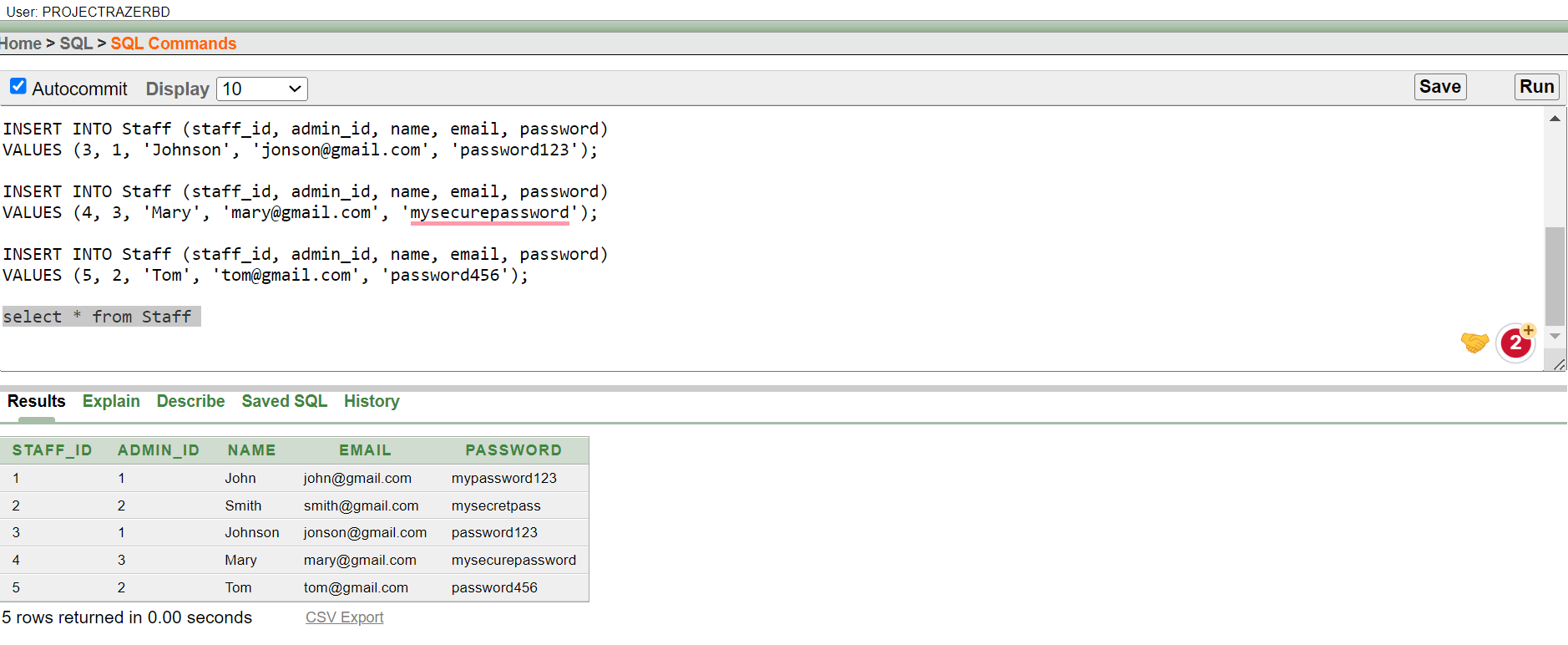
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**Comments\_Section Table:**

Graphical user interface, text, application

Description automatically generated

**Staff Table:**

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**Warehouse Table:**

Graphical user interface, text, application, email

Description automatically generated

**Query Writing:**

**Questions:**

1. Write a query to retrieve the name and email of all users who have placed an order.
2. Write a query to retrieve the total quantity of Razor Keyboard in the warehouse.
3. Write a query to retrieve the highest-priced item in the warehouse.
4. Write a query to retrieve the details of all items in the warehouse that are currently out of stock.
5. Write a query to retrieve the total cost of all orders placed by user id 1.
6. Write a query to retrieve the name and email of all users who have placed an order using Cash on delivery.
7. Write a query to retrieve the name and email of all users who have commented on a product.
8. Write a query to retrieve the details of all orders that have a total cost greater than 200.
9. Write a query to retrieve the list of items with a price higher than the average price of all items in the warehouse.
10. Write a query to retrieve the total number of comments in the comments section.

**Answers:**

1. SELECT u.Name, u.Email FROM user\_data u JOIN user\_orders o ON u.Id = o.Id;
2. SELECT SUM(quantity) FROM Warehouse WHERE item\_name = 'Razor Keyboard';
3. SELECT \* FROM Warehouse WHERE price = (SELECT MAX(price) FROM Warehouse);
4. SELECT \* FROM Warehouse WHERE quantity = 0;
5. SELECT SUM(Product\_total) FROM user\_orders WHERE Id = '1';
6. SELECT u.Name, u.Email FROM user\_data u JOIN user\_orders o ON u.Id = o.Id WHERE o.Pay\_method ='COD';
7. SELECT c.Namec, c.Emailc FROM comments\_section c JOIN user\_data u ON c.Idc = u.Id;
8. SELECT \* FROM user\_orders WHERE Product\_total > 200;
9. SELECT \*FROM WarehouseWHERE price > (SELECT AVG(price) FROM Warehouse);
10. SELECT COUNT(\*) comment\_count FROM comments\_section;

**User Interface for Login and Registration:**

