AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)

Department of Computer Science

Faculty of Science &Technology (FST)

Fall 21_22

ADVANCE DATABASE MANAGEMENT SYSTEM

Section: C

Supervised By

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Submitted By

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Table of Contents:

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:

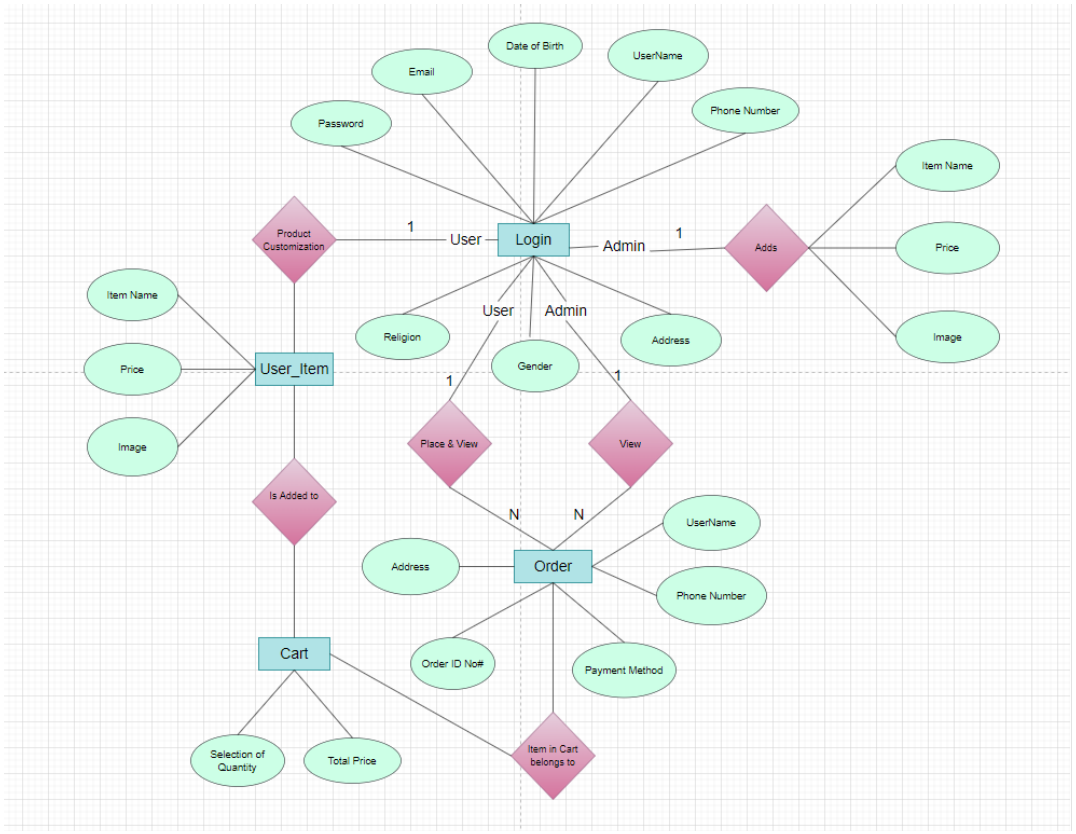
- User can comment and can view comment other user's comment in the same page without reloading the page. Here Ajax is used and from SQL database comment was limited by two in descending order.

- Because of the JavaScript client server implementation user cannot send blank in the forms

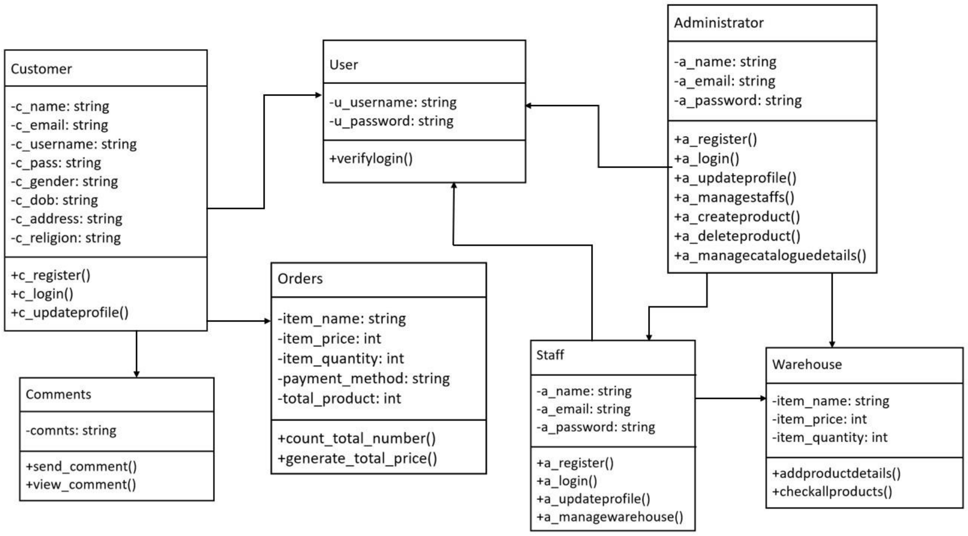
- Can view the products in the store and can add products to the cart which gets updated and can select the desired quantity of the products which user wants to purchase by using SESSION the Cart Items and Quantity stays updated and remains in the cart index in till checkout has been made.

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

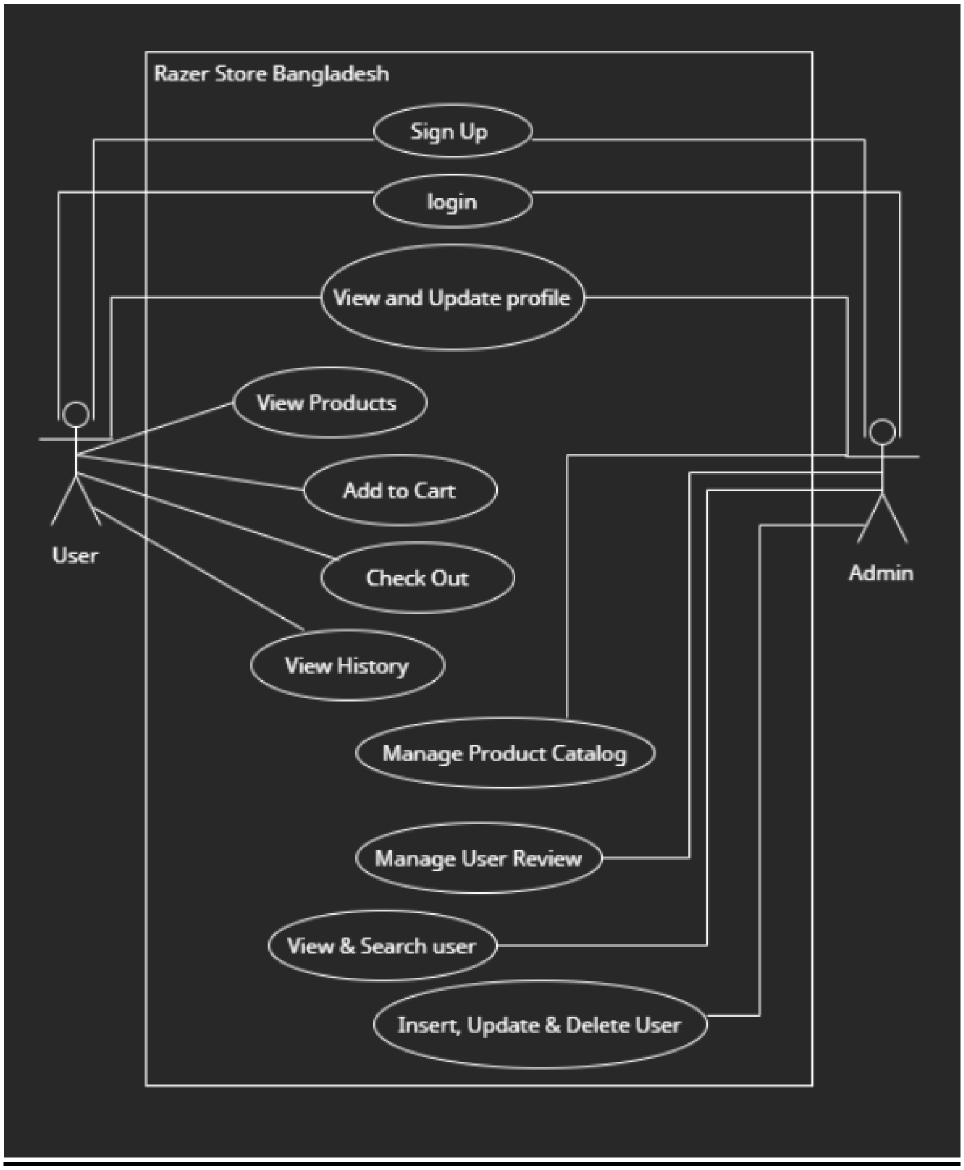
ERD Diagram:



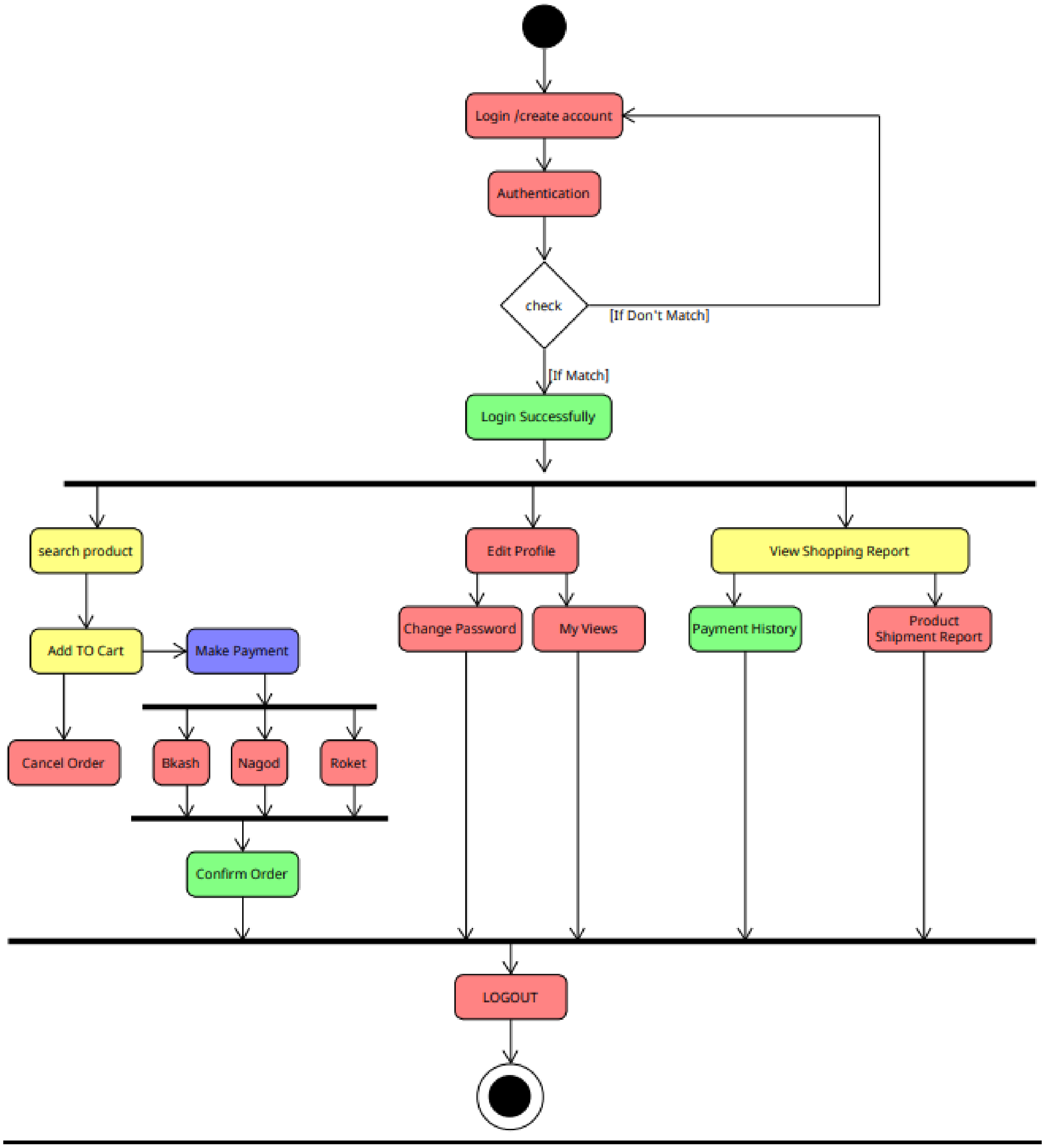
Class Diagram:



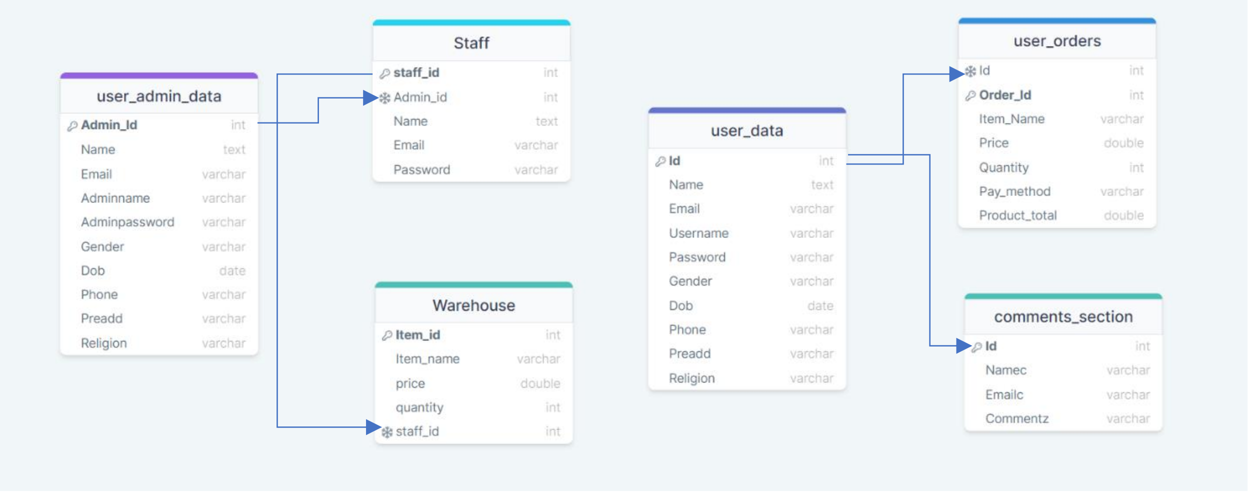
Use Case Diagram:



Activity Diagram:



Schema Diagram:



Staff

staff_id	int
Admin_id	int
Name	text
Email	varchar
Password	varchar

user_orders

Id	int
Order_Id	int
Item_Name	varchar
Price	double
Quantity	int
Pay_method	varchar
Product_total	double

user_admin_data

Admin_Id	int
Name	text
Email	varchar
Adminname	varchar
Adminpassword	varchar
Gender	varchar
Dob	date
Phone	varchar
Preadd	varchar
Religion	varchar

user_data

Id	int
Name	text
Email	varchar
Username	varchar
Password	varchar
Gender	varchar
Dob	date
Phone	varchar
Preadd	varchar
Religion	varchar

Warehouse

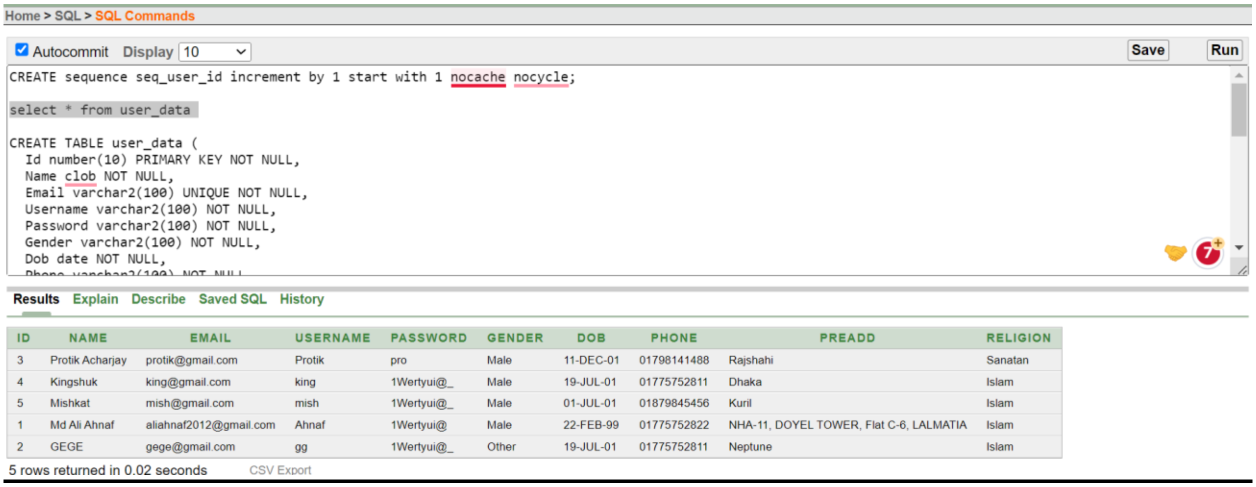
Item_id	int
Item_name	varchar
price	double
quantity	int
staff_id	int

comments_section

Id	int
Namec	varchar
Emailc	varchar
Commentz	varchar

Screenshots of Sample Data:

User_Data Table:

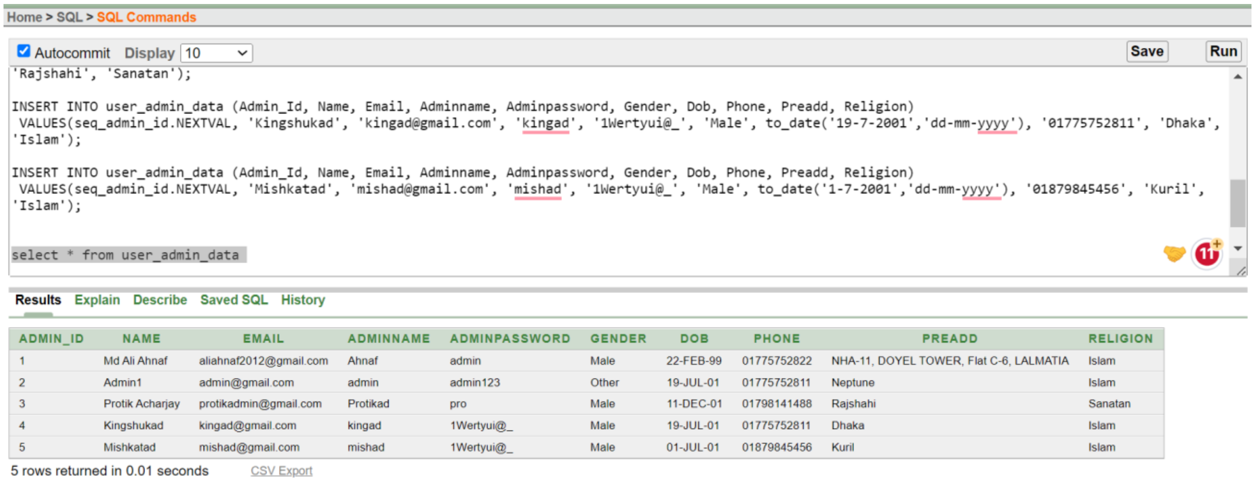


```
CREATE sequence seq_user_id increment by 1 start with 1 nocache nocycle;

select * from user_data

CREATE TABLE user_data (
  Id number(10) PRIMARY KEY NOT NULL,
  Name clob NOT NULL,
  Email varchar2(100) UNIQUE NOT NULL,
  Username varchar2(100) NOT NULL,
  Password varchar2(100) NOT NULL,
  Gender varchar2(100) NOT NULL,
  Dob date NOT NULL,
  Phone varchar2(100) NOT NULL
```

ID	NAME	EMAIL	USERNAME	PASSWORD	GENDER	DOB	PHONE	PREADD	RELIGION
3	Protik Acharjay	protik@gmail.com	Protik	pro	Male	11-DEC-01	01798141488	Rajshahi	Sanatan
4	Kingshuk	king@gmail.com	king	1Wertyui@_	Male	19-JUL-01	01775752811	Dhaka	Islam
5	Mishkat	mish@gmail.com	mish	1Wertyui@_	Male	01-JUL-01	01879845456	Kuril	Islam
1	Md Ali Ahnaf	aliahnaf2012@gmail.com	Ahnaf	1Wertyui@	Male	22-FEB-99	01775752822	NHA-11, DOYEL TOWER, Flat C-6, LALMATIA	Islam
2	GEGE	gege@gmail.com	gg	1Wertyui@_	Other	19-JUL-01	01775752811	Neptune	Islam

5 rows returned in 0.02 seconds

User_Admin_Data Table:

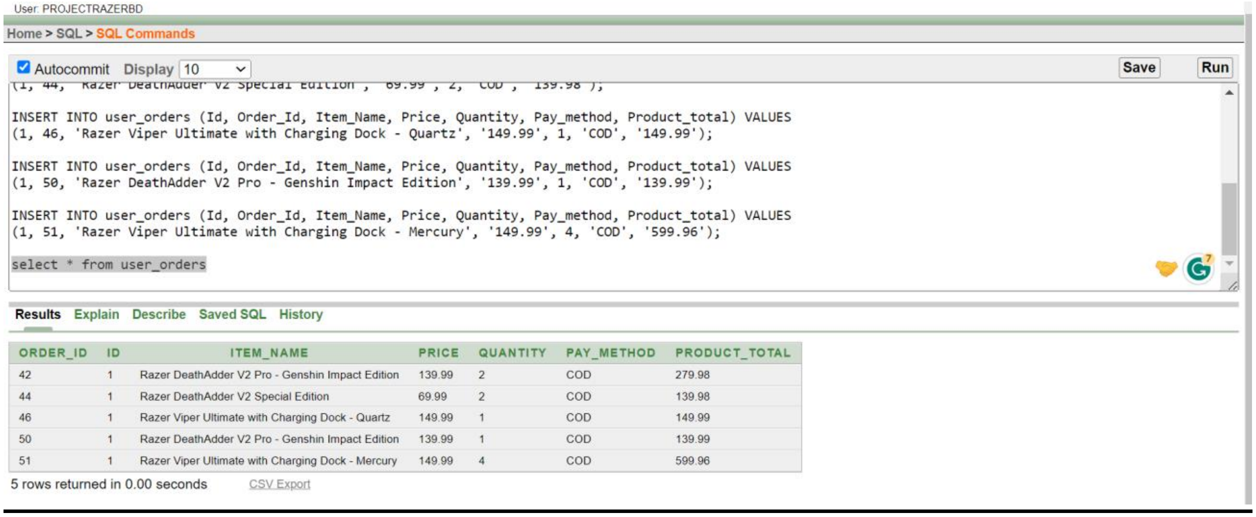


```
'Rajshahi', 'Sanatan');

INSERT INTO user_admin_data (Admin_Id, Name, Email, Adminname, Adminpassword, Gender, Dob, Phone, Preadd, Religion)
 VALUES(seq_admin_id.NEXTVAL, 'Kingshukad', 'kingad@gmail.com', 'kingad', '1Wertyui@_', 'Male', to_date('19-7-2001','dd-mm-yyyy'), '01775752811', 'Dhaka',
'Islam');

INSERT INTO user_admin_data (Admin_Id, Name, Email, Adminname, Adminpassword, Gender, Dob, Phone, Preadd, Religion)
 VALUES(seq_admin_id.NEXTVAL, 'Mishkatad', 'mishad@gmail.com', 'mishad', '1Wertyui@_', 'Male', to_date('1-7-2001','dd-mm-yyyy'), '01879845456', 'Kuril',
'Islam');


select * from user_admin_data
```

ADMIN_ID	NAME	EMAIL	ADMINNAME	ADMINPASSWORD	GENDER	DOB	PHONE	PREADD	RELIGION
1	Md Ali Ahnaf	aliahnaf2012@gmail.com	Ahnaf	admin	Male	22-FEB-99	01775752822	NHA-11, DOYEL TOWER, Flat C-6, LALMATIA	Islam
2	Admin1	admin@gmail.com	admin	admin123	Other	19-JUL-01	01775752811	Neptune	Islam
3	Protik Acharjay	protikadmin@gmail.com	Protikad	pro	Male	11-DEC-01	01798141488	Rajshahi	Sanatan
4	Kingshukad	kingad@gmail.com	kingad	1Wertyui@_	Male	19-JUL-01	01775752811	Dhaka	Islam
5	Mishkatad	mishad@gmail.com	mishad	1Wertyui@_	Male	01-JUL-01	01879845456	Kuril	Islam

5 rows returned in 0.01 seconds

User_Orders Table:

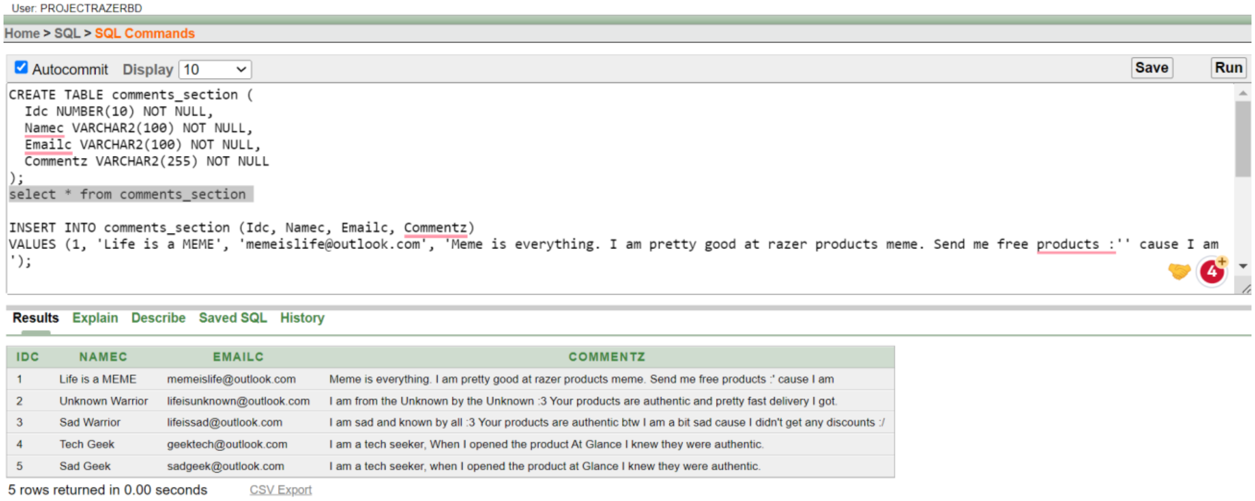


```
(1, 44, 'Razer DeathAdder V2 Special Edition', '69.99', 2, 'COD', '139.98');

INSERT INTO user_orders (Id, Order_Id, Item_Name, Price, Quantity, Pay_method, Product_total) VALUES
(1, 46, 'Razer Viper Ultimate with Charging Dock - Quartz', '149.99', 1, 'COD', '149.99');

INSERT INTO user_orders (Id, Order_Id, Item_Name, Price, Quantity, Pay_method, Product_total) VALUES
(1, 50, 'Razer DeathAdder V2 Pro - Genshin Impact Edition', '139.99', 1, 'COD', '139.99');

INSERT INTO user_orders (Id, Order_Id, Item_Name, Price, Quantity, Pay_method, Product_total) VALUES
(1, 51, 'Razer Viper Ultimate with Charging Dock - Mercury', '149.99', 4, 'COD', '599.96');

select * from user_orders
```

ORDER_ID	ID	ITEM_NAME	PRICE	QUANTITY	PAY_METHOD	PRODUCT_TOTAL
42	1	Razer DeathAdder V2 Pro - Genshin Impact Edition	139.99	2	COD	279.98
44	1	Razer DeathAdder V2 Special Edition	69.99	2	COD	139.98
46	1	Razer Viper Ultimate with Charging Dock - Quartz	149.99	1	COD	149.99
50	1	Razer DeathAdder V2 Pro - Genshin Impact Edition	139.99	1	COD	139.99
51	1	Razer Viper Ultimate with Charging Dock - Mercury	149.99	4	COD	599.96

5 rows returned in 0.00 seconds

Comments_Section Table:

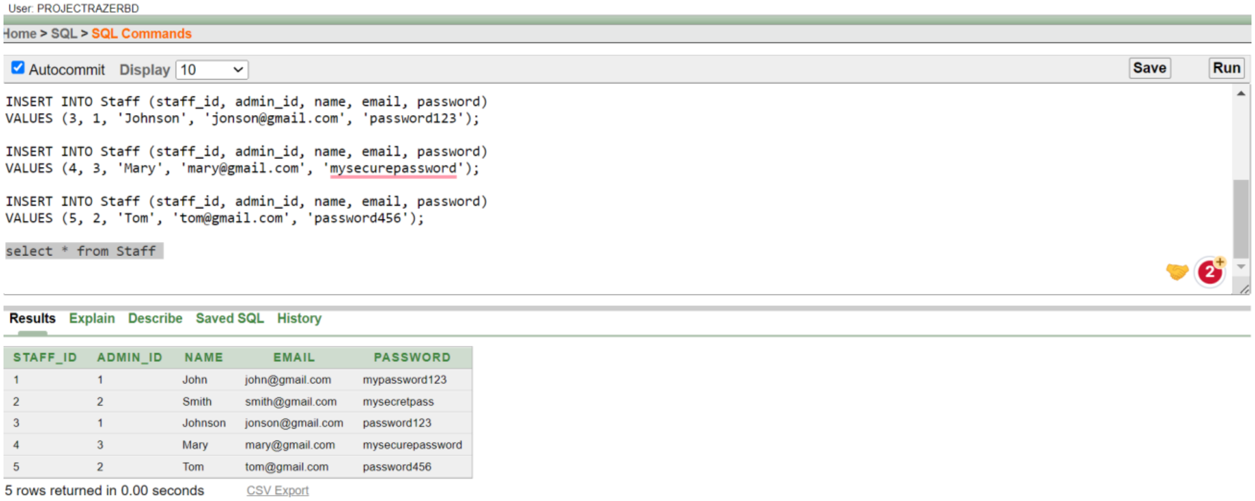


```
CREATE TABLE comments_section (
  Idc NUMBER(10) NOT NULL,
  Namec VARCHAR2(100) NOT NULL,
  Emailc VARCHAR2(100) NOT NULL,
  Commentz VARCHAR2(255) NOT NULL
);
select * from comments_section

INSERT INTO comments_section (Idc, Namec, Emailc, Commentz)
VALUES (1, 'Life is a MEME', 'memeislife@outlook.com', 'Meme is everything. I am pretty good at razer products meme. Send me free products :'' cause I am
');
```

IDC	NAMEC	EMAILC	COMMENTZ
1	Life is a MEME	memeislife@outlook.com	Meme is everything. I am pretty good at razer products meme. Send me free products :' cause I am
2	Unknown Warrior	lifeisunknown@outlook.com	I am from the Unknown by the Unknown :3 Your products are authentic and pretty fast delivery I got.
3	Sad Warrior	lifeissad@outlook.com	I am sad and known by all :3 Your products are authentic btw I am a bit sad cause I didn't get any discounts :/
4	Tech Geek	geektech@outlook.com	I am a tech seeker, When I opened the product At Glance I knew they were authentic.
5	Sad Geek	sadgeek@outlook.com	I am a tech seeker, when I opened the product at Glance I knew they were authentic.

5 rows returned in 0.00 seconds CSV Export

Staff Table:

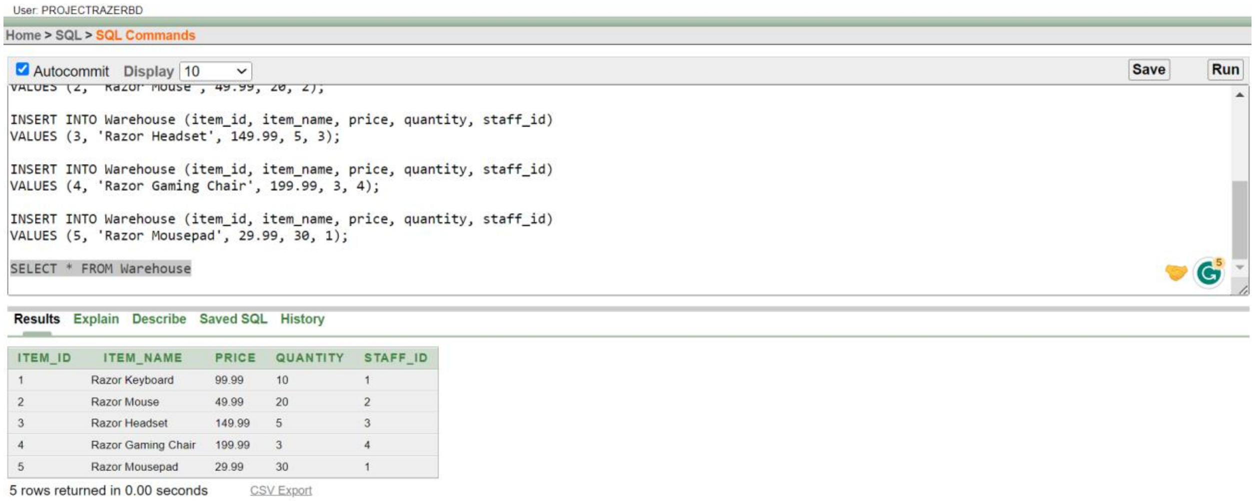


```
INSERT INTO Staff (staff_id, admin_id, name, email, password)
VALUES (3, 1, 'Johnson', 'jonson@gmail.com', 'password123');

INSERT INTO Staff (staff_id, admin_id, name, email, password)
VALUES (4, 3, 'Mary', 'mary@gmail.com', 'mysecurepassword');

INSERT INTO Staff (staff_id, admin_id, name, email, password)
VALUES (5, 2, 'Tom', 'tom@gmail.com', 'password456');

select * from Staff
```

STAFF_ID	ADMIN_ID	NAME	EMAIL	PASSWORD
1	1	John	john@gmail.com	mypassword123
2	2	Smith	smith@gmail.com	mysecretpass
3	1	Johnson	jonson@gmail.com	password123
4	3	Mary	mary@gmail.com	mysecurepassword
5	2	Tom	tom@gmail.com	password456

5 rows returned in 0.00 seconds CSV Export

Warehouse Table:



User: PROJECTRAZERBD
Home > SQL > SQL Commands
☑ Autocommit Display 10
Save
Run
Results Explain Describe Saved SQL History
CSV Export

```
VALUES (2, 'Razor Mouse', 49.99, 20, 2);

INSERT INTO Warehouse (item_id, item_name, price, quantity, staff_id)
VALUES (3, 'Razor Headset', 149.99, 5, 3);

INSERT INTO Warehouse (item_id, item_name, price, quantity, staff_id)
VALUES (4, 'Razor Gaming Chair', 199.99, 3, 4);

INSERT INTO Warehouse (item_id, item_name, price, quantity, staff_id)
VALUES (5, 'Razor Mousepad', 29.99, 30, 1);

SELECT * FROM Warehouse
```

ITEM_ID	ITEM_NAME	PRICE	QUANTITY	STAFF_ID
1	Razor Keyboard	99.99	10	1
2	Razor Mouse	49.99	20	2
3	Razor Headset	149.99	5	3
4	Razor Gaming Chair	199.99	3	4
5	Razor Mousepad	29.99	30	1

5 rows returned in 0.00 seconds

Query Writing:

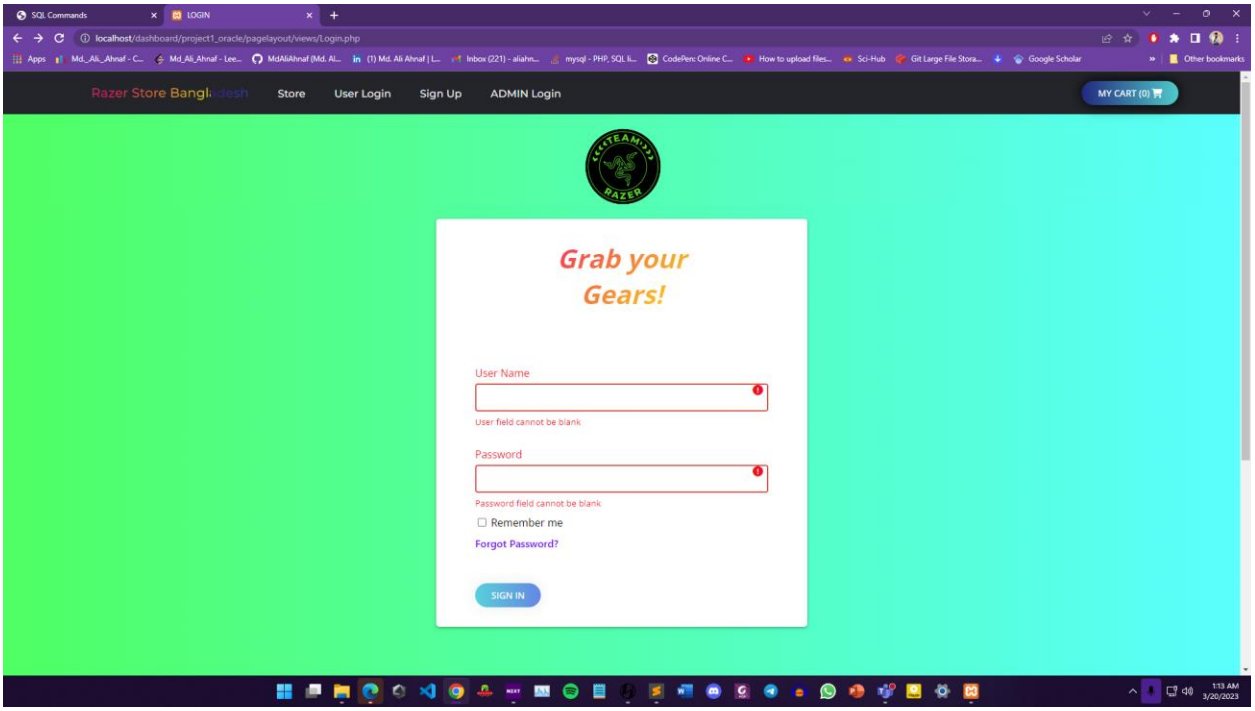
Questions:

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:

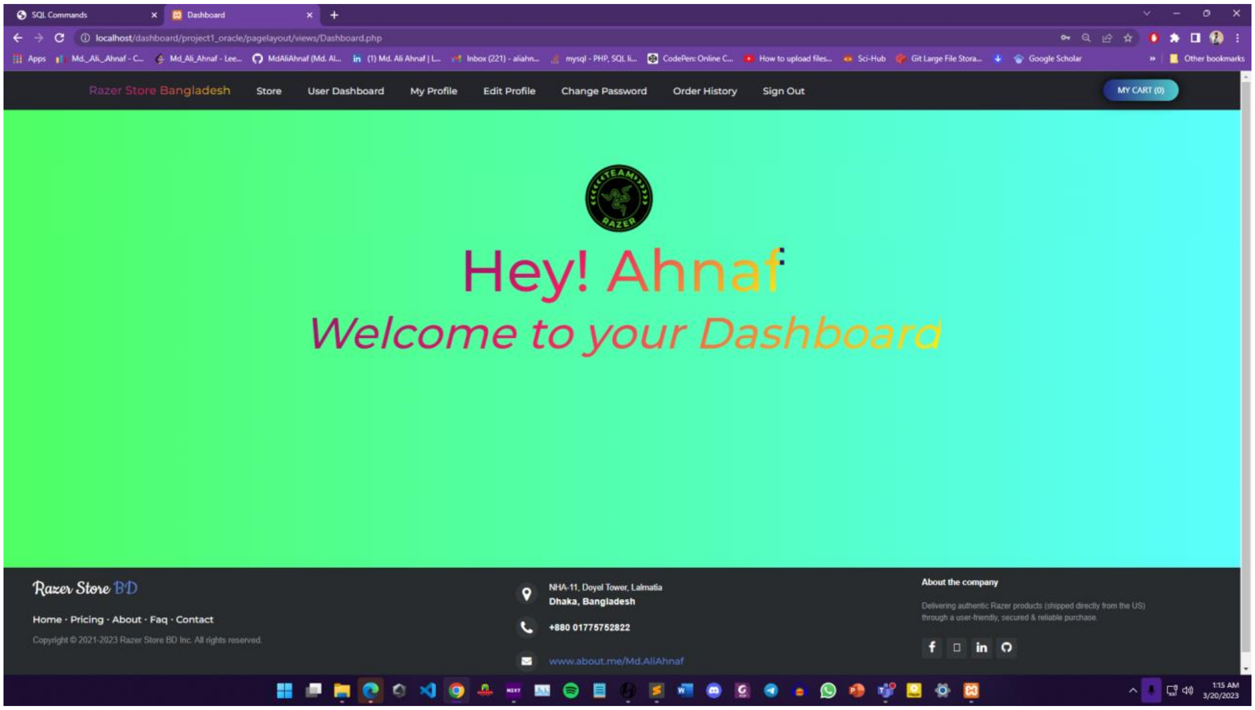
1. SELECT u.Name, u.Email FROM user_data u JOIN user_orders o ON u.Id = o.Id;
2. SELECT SUM(quantity) FROM Warehouse WHERE item_name = 'Razor Keyboard';
3. SELECT * FROM Warehouse WHERE price = (SELECT MAX(price) FROM Warehouse);
4. SELECT * FROM Warehouse WHERE quantity = 0;
5. SELECT SUM(Product_total) 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:



User field cannot be blank

Password field cannot be blank



localhost/dashboard/project1_oracle/pagelayout/views/Dashboard.php

Hey! Ahnaf

Welcome to your Dashboard

Razer Store BD

Home · Pricing · About · Faq · Contact

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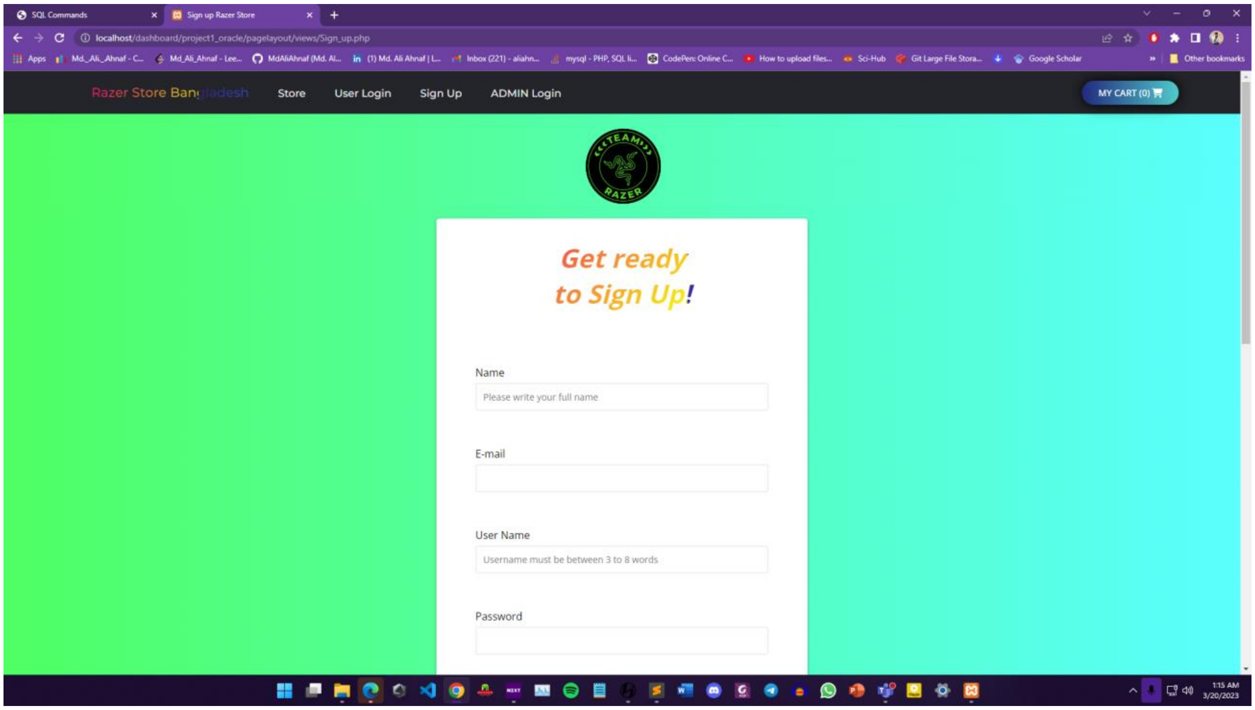
About the company

Delivering authentic Razer products (shipped directly from the US) through a user-friendly, secured & reliable purchase.



localhost/dashboard/project1_oracle/pagelayout/views/Sign_up.php

Get ready to Sign Up!

Name

Please write your full name

E-mail

User Name

Username must be between 3 to 8 words

Password