PROJECT DEADLINE-5

Fundamentals of DBMS

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EMBEDDED SQL QUERIES

1. **LOGIN (Checks the entered login info against our database to authenticate login)**
   SELECT customer_id FROM pharmacy.customer WHERE customer_id={customer_id}

```
#Login
if option==1:
    while (True):
        customer_id=int(input("Enter cutomer id: "))
        pswd=input("Enter password (Hint: password is same as your phone number): ")
        query=f"SELECT customer_id FROM pharmacy.customer WHERE customer_id={customer_id}"
        cursor.execute(query)
        row = cursor.fetchone()

        if (int(row[0])==customer_id):
            print(line)
            print("Login Successful")
            print(line)
            break
        else:
            print(line)
            print("Login failed, enter again")
            print(line)
```

2. **SIGNUP (Inserts a new customer row into the customer table)**
   INSERT INTO customer (`customer_ID`, `first_name`,`last_name`, `phone_number`, `address`,`email_address`) VALUES ('{customerid}', '{first_name}','{last_name}', '{phone}', '{addr}', '{email}')

```
#Signup
if option==2:
    first_name=input("Enter First Name: ")
    last_name=input("Enter Last Name: ")
    phone=input("Enter phone number: ")
    addr=input("Enter address: ")
    email=input("Enter email address: ")
    customerid=(random,random.randint(10001,20000))
    query = f"INSERT INTO customer (`customer_ID`, `first_name`,`last_na
    cursor.execute(query)
    print("")
    print("Signup successful!")

    print(f"Your customer id: {customerid}")
    print(f"Your password: {phone}")
```

3. **VIEW ADMIN INFO (Lists various tables of our database)**
   SELECT * FROM pharmacy.account
   SELECT * FROM pharmacy.customer
   SELECT * FROM pharmacy.inventory
   SELECT * FROM pharmacy.medicine
   SELECT * FROM pharmacy.orderr
   SELECT * FROM pharmacy.pharmacist

```
optionadmin=int(input("Choose the desired option: "))

if optionadmin==1:
    cursor.execute("SELECT * FROM pharmacy.account")
    print_table(cursor)

if optionadmin==2:
    cursor.execute("SELECT * FROM pharmacy.customer")
    print_table(cursor)

if optionadmin==3:
    cursor.execute("SELECT * FROM pharmacy.inventory")
    print_table(cursor)

if optionadmin==4:
    cursor.execute("SELECT * FROM pharmacy.medicine")
    print_table(cursor)

if optionadmin==5:
    cursor.execute("SELECT * FROM pharmacy.orderr")
    print_table(cursor)

if optionadmin==6:
    cursor.execute("SELECT * FROM pharmacy.pharmacist")
    print_table(cursor)
```

OLAP QUERIES

1. **Lists total sales of goods over different years through different modes of payment :**

```
SELECT YEAR(received_date), payment_method, SUM(total_amount)
FROM orderr
GROUP BY YEAR(received_date), payment_method WITH ROLLUP
```

2. **Lists the buying trends of customers since opening their accounts:**

```
SELECT quarter(open_date),SUM(total), quarter(shipping_date)
FROM orderr join account on orderr.id = account.customer_id where status = "delivered"
GROUP BY quarter(open_date), quarter(shipping_date) WITH ROLLUP
```

3. **Lists average number of medicines purchased by each customer over different orders:**

```
SELECT cart_id,AVG(quantity)
FROM orderr join cart on orderr.cart_id = cart.cart_id
GROUP BY cart_id WITH ROLLUP
```

4. **Lists the quarterly trends of number of goods sold and total sales done on average:**

```
SELECT quarter(shipping_date), payment_method, avg(total_amount),avg(quantity)
FROM orderr join cart on orderr.cart_id = cart.cart_id
GROUP BY quarter(shipping_date), payment_method, status WITH ROLLUP
```

TRIGGERS

1.
```
delimiter //
CREATE TRIGGER `update_status`
AFTER UPDATE ON `orderr`
FOR EACH ROW
BEGIN
   IF NEW.received_date !=OLD.received_date THEN

      UPDATE `orderr`
      SET `status` = 'delivered'
      WHERE `orderr`.cart_id = NEW.cart_id;
   END IF;
END;
delimiter;
```

2.
```
delimiter //
CREATE TRIGGER `insert_status`
AFTER INSERT ON `orderr`
FOR EACH ROW
BEGIN

      UPDATE `orderr`
      SET `status` = 'processing'
      WHERE `orderr`.cart_id = NEW.cart_id;

END;
delimiter;
```