# Heaven's Light is Our Guide Rajshahi University of Engineering and Technology



Course Code ECE 2216

# Course Title Database Systems Sessional

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Lab Report 3: Creating a database and doing operations on it using SQL

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# Basic MySQL Operations

# Md Tajim An Noor

## 1 Tools Used

- MySQL
- VS Code as an IDE to use SQL
- MacTeX -LATEX compiler
- VS Code with LaTeX workshop extension as a text editor

## 2 Process

The task is to create a database and then do some operations on the database using the SELECT, WHERE, LIKE, IN operator.

# 2.1 SQL Codes:

Create a table, order\_details(order code, customer name, mobile, address, product ordered, category, quantity, delivery status, remark)

```
CREATE DATABASE IF NOT EXISTS ProductOrderDetailsLR3;
   -- creating databse
   -- creating the table as instructed
   CREATE TABLE ProductOrderDetailsLR3.Order_Details(
       order_code int Auto_Increment Primary Key,
       customer_name varchar(30),
       mobile varchar(30),
       address_ varchar(70),
       product_ordered varchar(30),
       catagory varchar(30),
10
       quantity int,
       delivery_status boolean,
       remark varchar(40)
13
   )
```

### 2.1.1 Add two columns order date and delivered date into the table.

#### Code:

```
alter TABLE
ProductOrderDetailsLR3.Order_Details
ADD
order_date date,
ADD
delivery_date date;
```

## 2.1.2 Insert values into the table where number of row is at least 15.

```
INSERT INTO
                                                 (
                                        29
   ProductOrderDetailsLR3.
                                                      'Sazid',
                                        30
   Order_Details
                                                      '01828798623',
                                        31
        (
                                                      'Zia Hall, RUET',
            customer_name,
                                                      'Freeze',
                                        33
                                                      'Home Appliance',
            mobile,
                                        34
            address_,
                                                      1,
                                        35
                                                      '1',
            product_ordered,
                                        36
                                                      'Borolox customer',
            catagory,
                                        37
                                                      '2023-01-01',
            quantity,
10
                                        38
                                                      '2023-02-14'
            delivery_status,
11
            remark,
                                                 ) . . .
12
            order_date,
13
                                            To save space only two instances of the
            delivery_date
14
                                            input values are shown.
        )
15
   VALUES
16
        (
17
             'Rifath',
             '016245226784',
19
             'Vataopara, Lokkhipur,
20
             → Rajshahi',
             'Mechanical Keyboard',
21
             'Tech Accessories',
22
             1,
             '1',
             'Good customer',
25
             '2023-06-11',
26
             '2023-06-14'
27
        ),
28
```

2.1.3 Find the customers who have ordered from Rajshahi.

#### Code:

```
1 SELECT
2      customer_name as Customer_Name,
3      address_ as Ordered_From
4 FROM
5      ProductOrderDetailsLR3.Order_Details
6      where
7      address_ like '%Rajshahi%'
```

2.1.4 Find the customers and their full address whose order has been canceled with a remark of "can not be processed".

```
-- updating the remarks as Cannon be processed for future
   → operations
  UPDATE
       ProductOrderDetailsLR3.Order_Details
  set
       remark = 'Cannot be proccessed'
  WHERE
       delivery_status = 0
  -- finding the customers
  SELECT
       customer_name as Customer_Name,
10
       address_ as Ordered_From
  FROM
      ProductOrderDetailsLR3.Order_Details
13
  where
14
       remark = 'Cannot be proccessed'
15
```

2.1.5 Find the customers and product they ordered who have ordered after "30-10-2021"

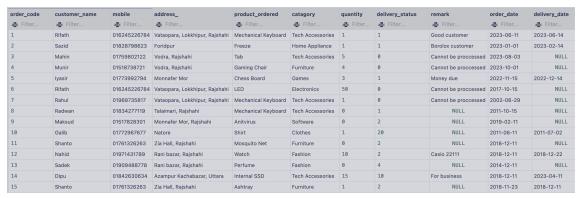
### Code:

```
SELECT
customer_name as Customer_Name,
product_ordered as Product
FROM
ProductOrderDetailsLR3.Order_Details
where
order_date > '2021-10-30'
```

2.1.6 Find the order code and customer's mobile who ordered 5, 10 or 15 numbers of products.

```
order_code as Order_Code,
mobile as Customer_Mobile,
quantity
FROM
ProductOrderDetailsLR3.Order_Details
WHERE
quantity in(5, 10, 15)
```

# 3 Output



(a) The complete table for the Database.

Customer_Name	Ordered_From	
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	
Rifath	Vataopara, Lokkhipur, Rajshahi	
Mahin	Vodra, Rajshahi	
Munir	Vodra, Rajshahi	
Rifath	Vataopara, Lokkhipur, Rajshahi	
Rahul	Vataopara, Lokkhipur, Rajshahi	
Radwan	Talaimari, Rajshahi	
Maksud	Monnafer Mor, Rajshahi	
Shanto	Zia Hall, Rajshahi	
Nahid	Rani bazar, Rajshahi	
Sadek	Rani bazar, Rajshahi	
Shanto	Zia Hall, Rajshahi	

(b) Customers who have ordered from Rajshahi.

Customer_Name	Ordered_From			
abc Filter	a <mark>b</mark> c Filter			
Mahin	Vodra, Rajshahi			
Munir	Vodra, Rajshahi			
Rifath	Vataopara, Lokkhipur, Rajshahi			
Rahul	Vataopara, Lokkhipur, Rajshahi			

Customer Name	Product	Order Date
alc Filter	a <b>⊡</b> c Filter	a <b>⊡</b> c Filter
Rifath	Mechanical Keyboard	2023-06-11
Sazid	Freeze	2023-01-01
Mahin	Tab	2023-08-03
Munir	Gaming Chair	2023-10-01
lyasir	Chess Board	2022-11-15

- (c) Customers whose ordered have been canceled.
- (d) Customers who have ordered after Oct 30, 2021.

Order_Code	Customer_Mobile	quantity
a <mark>b</mark> c Filter	a <mark>b</mark> c Filter	a <mark>b</mark> c Filter
3	01759802122	5
12	01971431789	10
14	01842630634	15

(e) Customers who ordered 5, 10 or 15 products.