A

REPORT

ON

SALES_PRODUCTS

PEFORMED BY

IBAD ASAD QUADRI (BSC CHEMISTRY)

GUIDED BY

SARJIL SATWARE(MS-IT & SPECIALIZATION IN DATA SCIENCE)

DATE OF SUBMISSION:-

DECLARTION

This is to declare that MR. IBAD ASAD QUADRI (BSC CHEMISTRY) have successfully completed their project titled: "DATA ANALYTICS ON

MEDICAL DATA ANALYSIS" as part of their academic curriculum. The

project was completed under the valuable guidance of MR. SARJIL

SATWARE (M.SC. IN IT & SPECIALIZATION IN DATA SCIENCE)

SUBMITTED BY :-

IBAD ASAD QUADRI

Aim :–

The aim of this project is to analyze sales data, identify key trends, and provide insights into product performance, customer behavior, and revenue growth. The project helps businesses make data-driven decisions for improving sales strategies.

Objective:-

The objective of this project is to prepare and analyze sales data to track revenue, identify top-performing products and regions, and generate actionable insights through data visualization for better business decision-making.

Keywords :-

Sales Analysis

Revenue Trends

Customer Behavior

Profit & Loss

Product Performance

Data Visualization

Power BI / Excel / MySQL

Business Insights

Dashboard Reporting

Decision Making

TOOLS/SOFTWARES USED :

FOR DATA RETRIEVAL:

MYSQL COMMUNITY SERVER & MYSQL WORKBENCH

FOR DATA IMPORT & EXPORT:

EXCEL

FOR DATA VISUALIZATION:

POWERBI.

PROCEDURE :-

CREATING DATABASE:-

```
mysql> create database tech_products;
Query OK, 1 row affected (1.13 sec)
```

TAKING OUR CREATED DATABASE IN CUSTODY FOR MAKING CHANGES:-

```
mysql> use tech_produts;
Database changed
mysql>
```

CREATING THE TABLE SHOWING THE CREADED TABLES AND STRUCTURE OF THE TABLE :-

```
mysql> desc tech_products;
+------------------+------+------+-----+---------+-------+
| Field            | Type | Null | Key | Default | Extra |
+------------------+------+------+-----+---------+-------+
| Transaction ID   | text | YES  |     | NULL    |       |
| Product          | text | YES  |     | NULL    |       |
| Quantity         | int  | YES  |     | NULL    |       |
| Unit Price (INR) | int  | YES  |     | NULL    |       |
| Date             | text | YES  |     | NULL    |       |
| Customer Name    | text | YES  |     | NULL    |       |
| State            | text | YES  |     | NULL    |       |
| Country          | text | YES  |     | NULL    |       |
| Sales Channel    | text | YES  |     | NULL    |       |
| Payment Type     | text | YES  |     | NULL    |       |
| Sales            | int  | YES  |     | NULL    |       |
+------------------+------+------+-----+---------+-------+
11 rows in set (0.52 sec)
```

DISPLYANG THE INSERTED VALUE TABLE FORMAT :

```
mysql> SELECT * FROM TECH_PRODUCTS;
+--------+--------------------+----------+------------------+------------+----------------+------------------+---------+---------------+--------------+
| Transaction ID | Product            | Quantity | Unit Price (INR) | Date       | Customer Name  | State            | Country | Sales Channel | Payment Type |
| Sales  |
+--------+--------------------+----------+------------------+------------+----------------+------------------+---------+---------------+--------------+
| TX0001 | Smartwatch         |       20 |             8941 | 2024-04-12 | Vivaan Sastry  | Arunachal Pradesh | India  | Store         | Credit Card  |
| 80469  |
| TX0002 | Desktop PC         |        9 |            19827 | 2024-02-06 | Ishaan Madan   | Odisha           | India   | Store         | Credit Card  |
| 178443 |
| TX0003 | Desktop PC         |        4 |            16640 | 2023-12-16 | Azad Sandhu    | Bihar            | India   | Online        | Credit Card  |
| 66560  |
| TX0004 | E-Reader           |        3 |             2945 | 2024-09-11 | Shray Chawla   | Manipur          | India   | Online        | Credit Card  |
| 8835   |
| TX0005 | Laptop             |       15 |             2848 | 2023-10-24 | Zara Kata      | Madhya Pradesh   | India   | Direct        | Net Banking  |
| 11392  |
| TX0006 | Laptop             |       15 |            18703 | 2023-12-24 | Vritika Kata   | Meghalaya        | India   | Store         | Net Banking  |
| 130921 |
| TX0007 | Tablet             |        4 |             9640 | 2023-11-27 | Hrishita Dada  | Goa              | India   | Store         | Credit Card  |
| 38560  |
| TX0008 | External Hard Drive |       7 |            15189 | 2024-07-13 | Anaya Sachar   | Punjab           | India   | Online        | Debit Card   |
| 106323 |
| TX0009 | Tablet             |        6 |             4093 | 2024-01-30 | Indrans Jani   | Meghalaya        | India   | Online        | UPI          |
| 24558  |
| TX0010 | Smartphone         |        8 |             7088 | 2023-11-15 | Shaan Dhar     | Assam            | India   | Online        | UPI          |
| 56704  |
| TX0011 | Smartwatch         |       20 |            11790 | 2024-07-03 | Lavanya Lal    | Sikkim           | India   | Online        | UPI          |
| 11790  |
| TX0012 | Headphones         |        9 |            19740 | 2024-09-11 | Prisha Bakshi  | Assam            | India   | Direct        | Credit Card  |
| 177660 |
| TX0013 | Printer            |        5 |            19143 | 2024-09-17 | Abram Shetty   | Tripura          | India   | Store         | UPI          |
| 95715  |
| TX0014 | Desktop PC         |        7 |             5387 | 2023-10-24 | Anaya Sunder   | Karnataka        | India   | Online        | Debit Card   |
| 37709  |
| TX0015 | Desktop PC         |        6 |            19724 | 2023-12-21 | Farhan Mand    | Manipur          | India   | Direct        | Debit Card   |
| 118344 |
| TX0016 | Camera             |        9 |             7785 | 2024-02-15 | Nakul Hora     | Uttar Pradesh    | India   | Direct        | Debit Card   |
| 70065  |
| TX0017 | Smartwatch         |       20 |             7262 | 2023-12-03 | Rhea Hegde     | Odisha           | India   | Online        | Cash         |
| 21786  |
```

UPDATE CUSTOMER NAME:-

```
mysql> UPDATE TECH_PRODUCTS SET Quantity = 20 WHERE Product = 'Smartwatch';
Query OK, 110 rows affected (0.07 sec)
Rows matched: 110  Changed: 110  Warnings: 0

mysql> UPDATE TECH_PRODUCTS SET Quantity = 15 WHERE Product = 'Laptop';
Query OK, 101 rows affected (0.06 sec)
Rows matched: 101  Changed: 101  Warnings: 0

mysql> UPDATE TECH_PRODUCTS SET Quantity = 8 WHERE Product = ' Desktop PC';
Query OK, 0 rows affected (0.00 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql> select * from tech_products;
+--------+--------------------+----------+------------------+------------+----------------+------------------+---------+---------------+--------------+
| Transaction ID | Product            | Quantity | Unit Price (INR) | Date       | Customer Name  | State            | Country | Sales Channel | Payment Type |
| Sales  |
+--------+--------------------+----------+------------------+------------+----------------+------------------+---------+---------------+--------------+
| TX0001 | Smartwatch         |       20 |             8941 | 2024-04-12 | Vivaan Sastry  | Arunachal Pradesh | India  | Store         | Credit Card  |
| 80469  |
| TX0002 | Desktop PC         |        9 |            19827 | 2024-02-06 | Ishaan Madan   | Odisha           | India   | Store         | Credit Card  |
| 178443 |
| TX0003 | Desktop PC         |        4 |            16640 | 2023-12-16 | Azad Sandhu    | Bihar            | India   | Online        | Credit Card  |
| 66560  |
| TX0004 | E-Reader           |        3 |             2945 | 2024-09-11 | Shray Chawla   | Manipur          | India   | Online        | Credit Card  |
| 8835   |
| TX0005 | Laptop             |       15 |             2848 | 2023-10-24 | Zara Kata      | Madhya Pradesh   | India   | Direct        | Net Banking  |
| 11392  |
| TX0006 | Laptop             |       15 |            18703 | 2023-12-24 | Vritika Kata   | Meghalaya        | India   | Store         | Net Banking  |
| 130921 |
| TX0007 | Tablet             |        4 |             9640 | 2023-11-27 | Hrishita Dada  | Goa              | India   | Store         | Credit Card  |
| 38560  |
| TX0008 | External Hard Drive |       7 |            15189 | 2024-07-13 | Anaya Sachar   | Punjab           | India   | Online        | Debit Card   |
| 106323 |
| TX0009 | Tablet             |        6 |             4093 | 2024-01-30 | Indrans Jani   | Meghalaya        | India   | Online        | UPI          |
| 24558  |
```

USE OF OPERATORS

1. EQUAL TO (=)

```
mysql> select * from tech_products where Quantity=4;
+--------+------------+----------+------------------+------------+----------------+----------------+---------+---------------+--------------+
| Transaction ID | Product    | Quantity | Unit Price (INR) | Date       | Customer Name  | State          | Country | Sales Channel | Payment Type |
| Sales  |
+--------+------------+----------+------------------+------------+----------------+----------------+---------+---------------+--------------+
| TX0003 | Desktop PC |        4 |            16640 | 2023-12-16 | Azad Sandhu    | Bihar          | India   | Online        | Credit Card  |
| 66560  |
| TX0007 | Tablet     |        4 |             9640 | 2023-11-27 | Hrishita Dada  | Goa            | India   | Store         | Credit Card  |
| 38560  |
| TX0018 | Printer    |        4 |             2877 | 2024-04-21 | Shanaya Desai  | Andhra Pradesh | India   | Online        | Cash         |
| 11508  |
| TX0024 | Camera     |        4 |            14772 | 2023-11-04 | Miraya Sahota  | Kerala         | India   | Direct        | Net Banking  |
| 59088  |
| TX0025 | Headphones |        4 |            14215 | 2024-01-22 | Hansh Rau      | Kerala         | India   | Direct        | Debit Card   |
| 56860  |
| TX0028 | Desktop PC |        4 |             8325 | 2023-11-06 | Damini Bhat    | Nagaland       | India   | Online        | Cash         |
| 33300  |
```

NOT EQUAL TO
(!=)

```
mysql> select * from tech_products  WHERE Quantity !=15;
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| Transaction ID | Product          | Quantity | Unit Price (INR) | Date       | Customer Name    | State             | Country | Sales Channel | Payment Type |
| Sales        |
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| TX0001       | Smartwatch       |       20 |             8941 | 2024-04-12 | Vivaan Sastry    | Arunachal Pradesh | India   | Store         | Credit Card  |
| 80469        |
| TX0002       | Desktop PC       |        9 |            19827 | 2024-02-06 | Ishaan Madan     | Odisha            | India   | Store         | Credit Card  |
| 178443       |
| TX0003       | Desktop PC       |        4 |            16640 | 2023-12-16 | Azad Sandhu      | Bihar             | India   | Online        | Credit Card  |
| 66560        |
| TX0004       | E-Reader         |        3 |             2945 | 2024-09-11 | Shray Chawla     | Manipur           | India   | Online        | Credit Card  |
| 8835         |
| TX0007       | Tablet           |        4 |             9640 | 2023-11-27 | Hrishita Dada    | Goa               | India   | Store         | Credit Card  |
| 38560        |
| TX0008       | External Hard Drive |     7 |            15189 | 2024-07-13 | Anaya Sachar     | Punjab            | India   | Online        | Debit Card   |
| 106323       |
| TX0009       | Tablet           |        6 |             4093 | 2024-01-30 | Indrans Jani     | Meghalaya         | India   | Online        | UPI          |
| 24558        |
| TX0010       | Smartphone       |        8 |             7088 | 2023-11-15 | Shaan Dhar       | Assam             | India   | Online        | UPI          |
| 56704        |
| TX0011       | Smartwatch       |       20 |            11790 | 2024-07-03 | Lavanya Lal      | Sikkim            | India   | Online        | UPI          |
| 11790        |
```

GREATER THAN (>)

```
mysql> select * from tech_products where sales>8835;
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| Transaction ID | Product          | Quantity | Unit Price (INR) | Date       | Customer Name    | State             | Country | Sales Channel | Payment Type |
| Sales        |
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| TX0001       | Smartwatch       |       20 |             8941 | 2024-04-12 | Vivaan Sastry    | Arunachal Pradesh | India   | Store         | Credit Card  |
| 80469        |
| TX0002       | Desktop PC       |        9 |            19827 | 2024-02-06 | Ishaan Madan     | Odisha            | India   | Store         | Credit Card  |
| 178443       |
| TX0003       | Desktop PC       |        4 |            16640 | 2023-12-16 | Azad Sandhu      | Bihar             | India   | Online        | Credit Card  |
| 66560        |
| TX0005       | Laptop           |       15 |             2848 | 2023-10-24 | Zara Kata        | Madhya Pradesh    | India   | Direct        | Net Banking  |
| 11392        |
| TX0006       | Laptop           |       15 |            18703 | 2023-12-24 | Vritika Kata     | Meghalaya         | India   | Store         | Net Banking  |
| 130921       |
| TX0007       | Tablet           |        4 |             9640 | 2023-11-27 | Hrishita Dada    | Goa               | India   | Store         | Credit Card  |
| 38560        |
| TX0008       | External Hard Drive |     7 |            15189 | 2024-07-13 | Anaya Sachar     | Punjab            | India   | Online        | Debit Card   |
| 106323       |
| TX0009       | Tablet           |        6 |             4093 | 2024-01-30 | Indrans Jani     | Meghalaya         | India   | Online        | UPI          |
| 24558        |
| TX0010       | Smartphone       |        8 |             7088 | 2023-11-15 | Shaan Dhar       | Assam             | India   | Online        | UPI          |
| 56704        |
| TX0011       | Smartwatch       |       20 |            11790 | 2024-07-03 | Lavanya Lal      | Sikkim            | India   | Online        | UPI          |
| 11790        |
| TX0012       | Headphones       |        9 |            19740 | 2024-09-11 | Prisha Bakshi    | Assam             | India   | Direct        | Credit Card  |
| 177660       |
```

GREATER THAN EQUAL TO
(>=)

```
mysql> select * from tech_products where sales>=80469;
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| Transaction ID | Product          | Quantity | Unit Price (INR) | Date       | Customer Name    | State             | Country | Sales Channel | Payment Type |
| Sales        |
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| TX0001       | Smartwatch       |       20 |             8941 | 2024-04-12 | Vivaan Sastry    | Arunachal Pradesh | India   | Store         | Credit Card  |
| 80469        |
| TX0002       | Desktop PC       |        9 |            19827 | 2024-02-06 | Ishaan Madan     | Odisha            | India   | Store         | Credit Card  |
| 178443       |
| TX0006       | Laptop           |       15 |            18703 | 2023-12-24 | Vritika Kata     | Meghalaya         | India   | Store         | Net Banking  |
| 130921       |
| TX0008       | External Hard Drive |     7 |            15189 | 2024-07-13 | Anaya Sachar     | Punjab            | India   | Online        | Debit Card   |
| 106323       |
| TX0012       | Headphones       |        9 |            19740 | 2024-09-11 | Prisha Bakshi    | Assam             | India   | Direct        | Credit Card  |
| 177660       |
| TX0013       | Printer          |        5 |            19143 | 2024-09-17 | Abram Shetty     | Tripura           | India   | Store         | UPI          |
| 95715        |
| TX0015       | Desktop PC       |        6 |            19724 | 2023-12-21 | Farhan Mand      | Manipur           | India   | Direct        | Debit Card   |
| 118344       |
| TX0023       | E-Reader         |        6 |            18074 | 2024-02-07 | Gokul Devi       | Telangana         | India   | Online        | Credit Card  |
| 108444       |
| TX0031       | E-Reader         |        8 |            11358 | 2023-12-15 | Hiran Kata       | Uttarakhand       | India   | Store         | UPI          |
| 90864        |
| TX0032       | Camera           |        8 |            15744 | 2024-01-29 | Shalv Sodhi      | Arunachal Pradesh | India   | Online        | Debit Card   |
| 125952       |
| TX0040       | E-Reader         |        9 |            13351 | 2024-08-08 | Advika Seshadri  | Mizoram           | India   | Direct        | Debit Card   |
| 120159       |
| TX0041       | Camera           |        5 |            16286 | 2024-08-12 | Veer Soman       | Chhattisgarh      | India   | Direct        | Net Banking  |
| 81430        |
| TX0047       | Smartwatch       |       20 |             9000 | 2024-08-14 | Dhanuk Dasgupta  | Sikkim            | India   | Store         | UPI          |
| 81000        |
| TX0052       | Smartphone       |        9 |            15553 | 2024-04-30 | Mishti Sahota    | Manipur           | India   | Online        | Credit Card  |
| 139977       |
| TX0054       | Desktop PC       |        5 |            18457 | 2024-03-07 | Adira Suresh     | Gujarat           | India   | Direct        | UPI          |
| 92285        |
| TX0055       | Laptop           |       15 |            19124 | 2024-08-23 | Aradhya Sarin    | Telangana         | India   | Direct        | Credit Card  |
```

LESS THAN(<)

```
mysql> select * from tech_products where sales<11392;
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| Transaction ID | Product          | Quantity | Unit Price (INR) | Date       | Customer Name    | State             | Country | Sales Channel | Payment Type |
| Sales        |
+--------------+--------------------+----------+------------------+------------+------------------+-------------------+---------+---------------+--------------+
| TX0004       | E-Reader         |        3 |             2945 | 2024-09-11 | Shray Chawla     | Manipur           | India   | Online        | Credit Card  |
| 8835         |
| TX0034       | Smartwatch       |       20 |             3896 | 2024-09-02 | Heer Borra       | Assam             | India   | Online        | Net Banking  |
| 7792         |
| TX0042       | Laptop           |       15 |             4978 | 2024-03-31 | Amira Badal      | Himachal Pradesh  | India   | Direct        | Cash         |
| 4978         |
| TX0046       | Desktop PC       |        1 |             4437 | 2023-10-16 | Zaina Sani       | Kerala            | India   | Direct        | UPI          |
| 4437         |
| TX0048       | Smartwatch       |       20 |             4321 | 2024-02-06 | Nakul Lalla      | Uttarakhand       | India   | Direct        | Credit Card  |
| 8642         |
```

LESS THAN EQAUL TO(<=)

```
mysql> select * from tech_products where sales<=66560;
+----------------+--------------------+----------+-----------------+------------+------------------+----------------+----------+----------------+--------------+
------+
| Transaction ID | Product            | Quantity | Unit Price (INR) | Date      | Customer Name    | State          | Country  | Sales Channel  | Payment Type |
Sales |
+----------------+--------------------+----------+-----------------+------------+------------------+----------------+----------+----------------+--------------+
------+
| TX0003         | Desktop PC         |        4 |           16640 | 2023-12-16 | Azad Sandhu      | Bihar          | India    | Online         | Credit Card  |
66560 |
| TX0004         | E-Reader           |        3 |            2945 | 2024-09-11 | Shray Chawla     | Manipur        | India    | Online         | Credit Card  |
 8835 |
| TX0005         | Laptop             |       15 |            2848 | 2023-10-24 | Zara Kata        | Madhya Pradesh | India    | Direct         | Net Banking  |
11392 |
| TX0007         | Tablet             |        4 |            9640 | 2023-11-27 | Hrishita Dada    | Goa            | India    | Store          | Credit Card  |
38560 |
| TX0009         | Tablet             |        6 |            4093 | 2024-01-30 | Indrans Jani     | Meghalaya      | India    | Online         | UPI          |
24558 |
| TX0010         | Smartphone         |        8 |            7088 | 2023-11-15 | Shaan Dhar       | Assam          | India    | Online         | UPI          |
56704 |
| TX0011         | Smartwatch         |       20 |           11790 | 2024-07-03 | Lavanya Lal      | Sikkim         | India    | Online         | UPI          |
11790 |
| TX0014         | Desktop PC         |        7 |            5387 | 2023-10-24 | Anaya Sunder     | Karnataka      | India    | Online         | Debit Card   |
37709 |
| TX0017         | Smartwatch         |       20 |            7262 | 2023-12-03 | Rhea Hegde       | Odisha         | India    | Online         | Cash         |
21786 |
| TX0018         | Printer            |        4 |            2877 | 2024-04-21 | Shanaya Desai    | Andhra Pradesh | India    | Online         | Cash         |
11508 |
| TX0020         | Printer            |        6 |            2081 | 2024-08-02 | Dharmajan Wable  | Assam          | India    | Store          | Cash         |
12486 |
| TX0021         | Laptop             |       15 |            4246 | 2024-07-25 | Myra Chanda      | Uttar Pradesh  | India    | Online         | Cash         |
16984 |
| TX0024         | Camera             |        4 |           14772 | 2023-11-04 | Miraya Sahota    | Kerala         | India    | Direct         | Net Banking  |
59088 |
| TX0025         | Headphones         |        4 |           14215 | 2024-01-22 | Hansh Rau        | Kerala         | India    | Direct         | Debit Card   |
56860 |
| TX0026         | External Hard Drive |       8 |            6274 | 2024-01-27 | Heer Gole        | Punjab         | India    | Direct         | Cash         |
50192 |
| TX0027         | External Hard Drive |       8 |            5670 | 2024-07-01 | Divyansh Ahluwalia | Mizoram      | India    | Store          | Cash         |
```

NULL

```
mysql> select * from tech_products where state is null;
Empty set (0.00 sec)
```

NOT NULL

```
mysql> select * from tech_products where state is not null;
+----------------+--------------------+----------+-----------------+------------+------------------+------------------+----------+----------------+--------------+
-------+
| Transaction ID | Product            | Quantity | Unit Price (INR) | Date      | Customer Name    | State            | Country  | Sales Channel  | Payment Type |
Sales |
+----------------+--------------------+----------+-----------------+------------+------------------+------------------+----------+----------------+--------------+
-------+
| TX0001         | Smartwatch         |       20 |            8941 | 2024-04-12 | Vivaan Sastry    | Arunachal Pradesh | India   | Store          | Credit Card  |
80469 |
| TX0002         | Desktop PC         |        9 |           19827 | 2024-02-06 | Ishaan Madan     | Odisha           | India    | Store          | Credit Card  |
178443 |
| TX0003         | Desktop PC         |        4 |           16640 | 2023-12-16 | Azad Sandhu      | Bihar            | India    | Online         | Credit Card  |
66560 |
| TX0004         | E-Reader           |        3 |            2945 | 2024-09-11 | Shray Chawla     | Manipur          | India    | Online         | Credit Card  |
 8835 |
| TX0005         | Laptop             |       15 |            2848 | 2023-10-24 | Zara Kata        | Madhya Pradesh   | India    | Direct         | Net Banking  |
11392 |
| TX0006         | Laptop             |       15 |           18703 | 2023-12-24 | Vritika Kata     | Meghalaya        | India    | Store          | Net Banking  |
130921 |
| TX0007         | Tablet             |        4 |            9640 | 2023-11-27 | Hrishita Dada    | Goa              | India    | Store          | Credit Card  |
38560 |
| TX0008         | External Hard Drive |       7 |           15189 | 2024-07-13 | Anaya Sachar     | Punjab           | India    | Online         | Debit Card   |
106323 |
| TX0009         | Tablet             |        6 |            4093 | 2024-01-30 | Indrans Jani     | Meghalaya        | India    | Online         | UPI          |
24558 |
| TX0010         | Smartphone         |        8 |            7088 | 2023-11-15 | Shaan Dhar       | Assam            | India    | Online         | UPI          |
56704 |
| TX0011         | Smartwatch         |       20 |           11790 | 2024-07-03 | Lavanya Lal      | Sikkim           | India    | Online         | UPI          |
11790 |
| TX0012         | Headphones         |        9 |           19740 | 2024-09-11 | Prisha Bakshi    | Assam            | India    | Direct         | Credit Card  |
177660 |
| TX0013         | Printer            |        5 |           19143 | 2024-09-17 | Abram Shetty     | Tripura          | India    | Store          | UPI          |
95715 |
| TX0014         | Desktop PC         |        7 |            5387 | 2023-10-24 | Anaya Sunder     | Karnataka        | India    | Online         | Debit Card   |
37709 |
| TX0015         | Desktop PC         |        6 |           19724 | 2023-12-21 | Farhan Mand      | Manipur          | India    | Direct         | Debit Card   |
118344 |
| TX0016         | Camera             |        9 |            7785 | 2024-02-15 | Nakul Hora       | Uttar Pradesh    | India    | Direct         | Debit Card   |
```

AND

```
mysql> select * from tech_products where product="Smartwatch" and Country="India";
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0001	Smartwatch	20	8941	2024-04-12	Vivaan Sastry	Arunachal Pradesh	India	Store	Credit Card	80469
TX0011	Smartwatch	20	11790	2024-07-03	Lavanya Lal	Sikkim	India	Online	UPI	11790
TX0017	Smartwatch	20	7262	2023-12-03	Rhea Hegde	Odisha	India	Online	Cash	21786
TX0034	Smartwatch	20	3896	2024-09-02	Heer Borra	Assam	India	Online	Net Banking	7792
TX0045	Smartwatch	20	5963	2024-04-18	Neelofar Kohli	Rajasthan	India	Online	Debit Card	35778
TX0047	Smartwatch	20	9000	2024-08-14	Dhanuk Dasgupta	Sikkim	India	Store	UPI	81000
TX0048	Smartwatch	20	4321	2024-02-06	Nakul Lalla	Uttarakhand	India	Direct	Credit Card	8642
TX0064	Smartwatch	20	12242	2023-10-02	Myra Gala	Karnataka	India	Online	Credit Card	24484
TX0065	Smartwatch	20	10977	2024-08-22	Prisha Gade	West Bengal	India	Store	Debit Card	54885
TX0069	Smartwatch	20	17480	2024-03-12	Arhaan Bhandari	Tamil Nadu	India	Store	Net Banking	104880
TX0078	Smartwatch	20	13385	2023-11-04	Kashvi Batra	Meghalaya	India	Direct	Cash	40155

OR

```
mysql> select * from tech_products where Country="India" or Sales=8835;
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0001	Smartwatch	20	8941	2024-04-12	Vivaan Sastry	Arunachal Pradesh	India	Store	Credit Card	80469
TX0002	Desktop PC	9	19827	2024-02-06	Ishaan Madan	Odisha	India	Store	Credit Card	178443
TX0003	Desktop PC	4	16640	2023-12-16	Azad Sandhu	Bihar	India	Online	Credit Card	66560
TX0004	E-Reader	3	2945	2024-09-11	Shray Chawla	Manipur	India	Online	Credit Card	8835
TX0005	Laptop	15	2848	2023-10-24	Zara Kata	Madhya Pradesh	India	Direct	Net Banking	11392
TX0006	Laptop	15	18703	2023-12-24	Vritika Kata	Meghalaya	India	Store	Net Banking	130921
TX0007	Tablet	4	9640	2023-11-27	Hrishita Dada	Goa	India	Store	Credit Card	38560
TX0008	External Hard Drive	7	15189	2024-07-13	Anaya Sachar	Punjab	India	Online	Debit Card	106323
TX0009	Tablet	6	4093	2024-01-30	Indrans Jani	Meghalaya	India	Online	UPI	24558
TX0010	Smartphone	8	7088	2023-11-15	Shaan Dhar	Assam	India	Online	UPI	56704
TX0011	Smartwatch	20	11790	2024-07-03	Lavanya Lal	Sikkim	India	Online	UPI	11790
TX0012	Headphones	9	19740	2024-09-11	Prisha Bakshi	Assam	India	Direct	Credit Card	177660
TX0013	Printer	5	19143	2024-09-17	Abram Shetty	Tripura	India	Store	UPI	95715
TX0014	Desktop PC	7	5387	2023-10-24	Anaya Sunder	Karnataka	India	Online	Debit Card	37709
TX0015	Desktop PC	6	19724	2023-12-21	Farhan Mand	Manipur	India	Direct	Debit Card	118344
TX0016	Camera	9	7785	2024-02-15	Nakul Hora	Uttar Pradesh	India	Direct	Debit Card	70065
TX0017	Smartwatch	20	7262	2023-12-03	Rhea Hegde	Odisha	India	Online	Cash	

BETWEEN

```
mysql> SELECT *FROM tech_products WHERE Quantity BETWEEN 4 AND 10;'
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0002	Desktop PC	9	19827	2024-02-06	Ishaan Madan	Odisha	India	Store	Credit Card	178443
TX0003	Desktop PC	4	16640	2023-12-16	Azad Sandhu	Bihar	India	Online	Credit Card	66560
TX0007	Tablet	4	9640	2023-11-27	Hrishita Dada	Goa	India	Store	Credit Card	38560
TX0008	External Hard Drive	7	15189	2024-07-13	Anaya Sachar	Punjab	India	Online	Debit Card	106323
TX0009	Tablet	6	4093	2024-01-30	Indrans Jani	Meghalaya	India	Online	UPI	24558
TX0010	Smartphone	8	7088	2023-11-15	Shaan Dhar	Assam	India	Online	UPI	56704
TX0012	Headphones	9	19740	2024-09-11	Prisha Bakshi	Assam	India	Direct	Credit Card	177660
TX0013	Printer	5	19143	2024-09-17	Abram Shetty	Tripura	India	Store	UPI	95715
TX0014	Desktop PC	7	5387	2023-10-24	Anaya Sunder	Karnataka	India	Online	Debit Card	37709
TX0015	Desktop PC	6	19724	2023-12-21	Farhan Mand	Manipur	India	Direct	Debit Card	118344
TX0016	Camera	9	7785	2024-02-15	Nakul Hora	Uttar Pradesh	India	Direct	Debit Card	70065
TX0018	Printer	4	2877	2024-04-21	Shanaya Desai	Andhra Pradesh	India	Online	Cash	11508
TX0019	Printer	8	9997	2023-11-30	Miraan Rastogi	Gujarat	India	Direct	Debit Card	79976
TX0020	Printer	6	2081	2024-08-02	Dharmajan Wable	Assam	India	Store	Cash	12486
TX0023	E-Reader	6	18074	2024-02-07	Gokul Devi	Telangana	India	Online	Credit Card	108444
TX0024	Camera	4	14772	2023-11-04	Miraya Sahota	Kerala	India	Direct	Net Banking	59088

NOTBETWEEN

```
mysql> SELECT *FROM tech_products WHERE Quantity NOT BETWEEN 7 AND 9;
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0001	Smartwatch	20	8941	2024-04-12	Vivaan Sastry	Arunachal Pradesh	India	Store	Credit Card	80469
TX0003	Desktop PC	4	16640	2023-12-16	Azad Sandhu	Bihar	India	Online	Credit Card	66560
TX0004	E-Reader	3	2945	2024-09-11	Shray Chawla	Manipur	India	Online	Credit Card	8835
TX0005	Laptop	15	2848	2023-10-24	Zara Kata	Madhya Pradesh	India	Direct	Net Banking	11392
TX0006	Laptop	15	18703	2023-12-24	Vritika Kata	Meghalaya	India	Store	Net Banking	130921
TX0007	Tablet	4	9640	2023-11-27	Hrishita Dada	Goa	India	Store	Credit Card	38560
TX0009	Tablet	6	4093	2024-01-30	Indrans Jani	Meghalaya	India	Online	UPI	24558
TX0011	Smartwatch	20	11790	2024-07-03	Lavanya Lal	Sikkim	India	Online	UPI	11790
TX0013	Printer	5	19143	2024-09-17	Abram Shetty	Tripura	India	Store	UPI	95715
TX0015	Desktop PC	6	19724	2023-12-21	Farhan Mand	Manipur	India	Direct	Debit Card	118344
TX0017	Smartwatch	20	7262	2023-12-03	Rhea Hegde	Odisha	India	Online	Cash	21786
TX0018	Printer	4	2877	2024-04-21	Shanaya Desai	Andhra Pradesh	India	Online	Cash	11508
TX0020	Printer	6	2081	2024-08-02	Dharmajan Wable	Assam	India	Store	Cash	12486
TX0021	Laptop	15	4246	2024-07-25	Myra Chanda	Uttar Pradesh	India	Online	Cash	16984
TX0022	Laptop	15	14316	2024-05-25	Lavanya Koshy	Arunachal Pradesh	India	Direct	UPI	

IN

```
mysql> SELECT *FROM tech_products WHERE Quantity IN (4,5,7);
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0003	Desktop PC	4	16640	2023-12-16	Azad Sandhu	Bihar	India	Online	Credit Card	66560
TX0007	Tablet	4	9640	2023-11-27	Hrishita Dada	Goa	India	Store	Credit Card	38560
TX0008	External Hard Drive	7	15189	2024-07-13	Anaya Sachar	Punjab	India	Online	Debit Card	106323
TX0013	Printer	5	19143	2024-09-17	Abram Shetty	Tripura	India	Store	UPI	95715
TX0014	Desktop PC	7	5387	2023-10-24	Anaya Sunder	Karnataka	India	Online	Debit Card	37709
TX0018	Printer	4	2877	2024-04-21	Shanaya Desai	Andhra Pradesh	India	Online	Cash	11508
TX0024	Camera	4	14772	2023-11-04	Miraya Sahota	Kerala	India	Direct	Net Banking	59088
TX0025	Headphones	4	14215	2024-01-22	Hansh Rau	Kerala	India	Direct	Debit Card	56860
TX0028	Desktop PC	4	8325	2023-11-06	Damini Bhat	Nagaland	India	Online	Cash	33300
TX0030	E-Reader	4	7947	2023-09-27	Keya Chacko	Mizoram	India	Direct	Net Banking	31788
TX0041	Camera	5	16286	2024-08-12	Veer Soman	Chhattisgarh	India	Direct	Net Banking	81430
TX0051	Printer	4	12400	2024-06-02	Shayak Dixit	Tripura	India	Direct	Cash	49600
TX0054	Desktop PC	5	18457	2024-03-07	Adira Suresh	Gujarat	India	Direct	UPI	92285
TX0057	Camera	4	2739	2024-03-22	Alisha Zachariah	Andhra Pradesh	India	Store	Credit Card	10956
TX0059	Smartphone	4	7390	2024-02-01	Aarav Yohannan	Andhra Pradesh	India	Online	UPI	29560
TX0074	E-Reader	7	17469	2024-04-02	Arnav Bhavsar	Karnataka	India	Direct	Cash	122283

NOTIN

```
mysql> SELECT *FROM tech_products WHERE Quantity NOT IN (8,9,10);
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0001	Smartwatch	20	8941	2024-04-12	Vivaan Sastry	Arunachal Pradesh	India	Store	Credit Card	80469
TX0003	Desktop PC	4	16640	2023-12-16	Azad Sandhu	Bihar	India	Online	Credit Card	66560
TX0004	E-Reader	3	2945	2024-09-11	Shray Chawla	Manipur	India	Online	Credit Card	8835
TX0005	Laptop	15	2848	2023-10-24	Zara Kata	Madhya Pradesh	India	Direct	Net Banking	11392
TX0006	Laptop	15	18703	2023-12-24	Vritika Kata	Meghalaya	India	Store	Net Banking	130921
TX0007	Tablet	4	9640	2023-11-27	Hrishita Dada	Goa	India	Store	Credit Card	38560
TX0008	External Hard Drive	7	15189	2024-07-13	Anaya Sachar	Punjab	India	Online	Debit Card	106323
TX0009	Tablet	6	4093	2024-01-30	Indrans Jani	Meghalaya	India	Online	UPI	24558
TX0011	Smartwatch	20	11790	2024-07-03	Lavanya Lal	Sikkim	India	Online	UPI	11790
TX0013	Printer	5	19143	2024-09-17	Abram Shetty	Tripura	India	Store	UPI	95715
TX0014	Desktop PC	7	5387	2023-10-24	Anaya Sunder	Karnataka	India	Online	Debit Card	37709
TX0015	Desktop PC	6	19724	2023-12-21	Farhan Mand	Manipur	India	Direct	Debit Card	118344
TX0017	Smartwatch	20	7262	2023-12-03	Rhea Hegde	Odisha	India	Online	Cash	21786
TX0018	Printer	4	2877	2024-04-21	Shanaya Desai	Andhra Pradesh	India	Online	Cash	11508
TX0020	Printer	6	2081	2024-08-02	Dharmajan Wable	Assam	India	Store	Cash	12486
TX0021	Laptop	15	4246	2024-07-25	Myra Chanda	Uttar Pradesh	India	Online	Cash	16984
TX0022	Laptop	15	14316	2024-05-25	Lavanya Koshy	Arunachal Pradesh	India	Direct	UPI	71580

USE OF AGGEGATE FUNCTION:

1. ## MIN

```
mysql> select Min(sales) from tech_products;
+------------+
| Min(sales) |
+------------+
|       2043 |
+------------+
1 row in set (0.03 sec)
```

2. ## MAX

```
mysql> select Max(Quantity) from tech_products;
+---------------+
| Max(Quantity) |
+---------------+
|            20 |
+---------------+
1 row in set (0.00 sec)
```

3. ## COUNT

```
+---------------+
|  Count(sales) |
+---------------+
|          1000 |
+---------------+
1 row in set (0.07 sec)
```

4. ## SUM

```
mysql> select Sum(Quantity) from tech_products;
+---------------+
| Sum(Quantity) |
+---------------+
|          7593 |
+---------------+
1 row in set (0.00 sec)
```

5. ## AVG

```
mysql> select AVG(SALES) from tech_products;
+------------+
| AVG(SALES) |
+------------+
| 51202.1170 |
+------------+
1 row in set (0.06 sec)
```

USE OF CLAUSES

1. HAVING

```
mysql> select * from tech_products  having sales;
+--------------+----------------+----------+------------------+------------+----------------+------------------+---------+----------------+--------------+
-------+
| Transaction ID | Product        | Quantity | Unit Price (INR) | Date       | Customer Name  | State            | Country | Sales Channel  | Payment Type |
Sales |
+--------------+----------------+----------+------------------+------------+----------------+------------------+---------+----------------+--------------+
-------+
| TX0001       | Smartwatch     |    20    |             8941 | 2024-04-12 | Vivaan Sastry  | Arunachal Pradesh | India  | Store          | Credit Card  |
 80469 |
| TX0002       | Desktop PC     |     9    |            19827 | 2024-02-06 | Ishaan Madan   | Odisha           | India   | Store          | Credit Card  |
178443 |
| TX0003       | Desktop PC     |     4    |            16640 | 2023-12-16 | Azad Sandhu    | Bihar            | India   | Online         | Credit Card  |
 66560 |
| TX0004       | E-Reader       |     3    |             2945 | 2024-09-11 | Shray Chawla   | Manipur          | India   | Online         | Credit Card  |
  8835 |
| TX0005       | Laptop         |    15    |             2848 | 2023-10-24 | Zara Kata      | Madhya Pradesh   | India   | Direct         | Net Banking  |
 11392 |
| TX0006       | Laptop         |    15    |            18703 | 2023-12-24 | Vritika Kata   | Meghalaya        | India   | Store          | Net Banking  |
130921 |
| TX0007       | Tablet         |     4    |             9640 | 2023-11-27 | Hrishita Dada  | Goa              | India   | Store          | Credit Card  |
 38560 |
| TX0008       | External Hard Drive |  7  |            15189 | 2024-07-13 | Anaya Sachar   | Punjab           | India   | Online         | Debit Card   |
106323 |
```

2. DISTINCT

```
mysql> SELECT DISTINCT (Country) From Tech_Products;
+---------+
| Country |
+---------+
| India   |
+---------+
1 row in set (0.06 sec)
```

3. GROUP BY

```
mysql> SELECT Product, SUM(Sales) AS Total_Sales
    -> FROM tech_products
    -> GROUP BY Product;
+-----------------------+-------------+
| Product               | Total_Sales |
+-----------------------+-------------+
| Smartwatch            |     5192638 |
| Desktop PC            |     5217319 |
| E-Reader              |     5139202 |
| Laptop                |     4782084 |
| Tablet                |     5070487 |
| External Hard Drive   |     5758590 |
| Smartphone            |     5345422 |
| Headphones            |     4007274 |
| Printer               |     5546024 |
| Camera                |     5143077 |
+-----------------------+-------------+
10 rows in set (0.01 sec)
```

4. ORDER BY

```
mysql> SELECT *
    -> FROM tech_products
    -> ORDER BY State ASC;
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0606	Laptop	15	4741	2024-08-08	Stuvan Korpal	Andhra Pradesh	India	Online	Net Banking	28446
TX0771	Tablet	5	19685	2024-04-11	Piya Agarwal	Andhra Pradesh	India	Store	Net Banking	98425
TX0519	Tablet	5	8429	2024-09-07	Vivaan Sethi	Andhra Pradesh	India	Store	Cash	42145
TX0850	Printer	6	17852	2024-08-21	Ojas Mangal	Andhra Pradesh	India	Store	Credit Card	107112
TX0018	Printer	4	2877	2024-04-21	Shanaya Desai	Andhra Pradesh	India	Online	Cash	11508
TX0224	Printer	9	19332	2024-04-18	Pari Koshy	Andhra Pradesh	India	Online	Net Banking	173988
TX0049	Printer	2	12180	2024-05-13	Indrajit Chandra	Andhra Pradesh	India	Store	Credit Card	24360
TX0276	Desktop PC	7	3588	2024-05-12	Alisha Arya	Andhra Pradesh	India	Store	Cash	25116
TX0607	E-Reader	6	14151	2024-09-22	Farhan Trivedi	Andhra Pradesh	India	Direct	UPI	84906
TX0465	Printer	9	11444	2024-02-11	Suhana Singh	Andhra Pradesh	India	Online	Net Banking	102996
TX0737	Smartphone	5	14876	2024-04-03	Farhan Goyal	Andhra Pradesh	India	Store	Net Banking	74380
TX0849	Smartwatch	20	17469	2023-09-25	Samarth Tak	Andhra Pradesh	India	Online	Net Banking	34938
TX0219	E-Reader	3	14236	2024-09-12	Samiha Sanghvi	Andhra Pradesh	India	Online	UPI	42708
TX0477	Printer	9	17766	2024-06-10	Arhaan Balay	Andhra Pradesh	India	Direct	UPI	159894
TX0547	Desktop PC	6	9992	2024-05-14	Jayant Kade	Andhra Pradesh	India	Direct	Net Banking	59952
TX0057	Camera	4	2739	2024-03-22	Alisha Zachariah	Andhra Pradesh	India	Store	Credit Card	

5. LIMIT

```
mysql> select * from tech_products limit 5;
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0001	Smartwatch	20	8941	2024-04-12	Vivaan Sastry	Arunachal Pradesh	India	Store	Credit Card	80469
TX0002	Desktop PC	9	19827	2024-02-06	Ishaan Madan	Odisha	India	Store	Credit Card	178443
TX0003	Desktop PC	4	16640	2023-12-16	Azad Sandhu	Bihar	India	Online	Credit Card	66560
TX0004	E-Reader	3	2945	2024-09-11	Shray Chawla	Manipur	India	Online	Credit Card	8835
TX0005	Laptop	15	2848	2023-10-24	Zara Kata	Madhya Pradesh	India	Direct	Net Banking	11392

```
5 rows in set (0.00 sec)
```

6. OFFSET

```
mysql> select * from tech_products limit 5 offset 100;
```

Transaction ID	Product	Quantity	Unit Price (INR)	Date	Customer Name	State	Country	Sales Channel	Payment Type	Sales
TX0101	Camera	2	7517	2024-05-12	Lagan Sarna	Tamil Nadu	India	Store	Debit Card	15034
TX0102	Smartphone	9	9197	2024-08-03	Jayan Balasubramanian	Punjab	India	Store	Cash	82773
TX0103	Smartphone	5	11166	2024-01-18	Mamooty Thaman	Himachal Pradesh	India	Online	Debit Card	55830
TX0104	External Hard Drive	8	19611	2024-09-23	Prerak Badal	Kerala	India	Store	Net Banking	156888
TX0105	E-Reader	1	14767	2024-02-12	Yuvaan Bhasin	West Bengal	India	Online	Net Banking	14767

```
5 rows in set (0.00 sec)
```

7. LIKE

```
mysql> SELECT  State from tech_products where State like "A%";
+-------------------+
| State             |
+-------------------+
| Arunachal Pradesh |
| Assam             |
| Assam             |
| Andhra Pradesh    |
| Assam             |
| Arunachal Pradesh |
| Arunachal Pradesh |
| Assam             |
| Arunachal Pradesh |
| Andhra Pradesh    |
| Andhra Pradesh    |
| Andhra Pradesh    |
| Assam             |
| Assam             |
| Assam             |
| Arunachal Pradesh |
| Arunachal Pradesh |
| Arunachal Pradesh |
| Assam             |
| Assam             |
| Arunachal Pradesh |
| Andhra Pradesh    |
| Assam             |
| Arunachal Pradesh |
| Assam             |
| Assam             |
| Arunachal Pradesh |
| Andhra Pradesh    |
```

CASE(IF ELSE)

```
mysql> SELECT    Product,    Sales,    CASE        WHEN Sales > 80000 THEN 'High Sale'        WHEN Sales BETWEEN 30000 AND 80000 THEN 'Medium Sale'        ELSE 'Low S
ale'    END AS Sales FROM tech_products;
+--------------------+--------+-------------+
| Product            | Sales  | Sales       |
+--------------------+--------+-------------+
| Smartwatch         |  80469 | High Sale   |
| Desktop PC         | 178443 | High Sale   |
| Desktop PC         |  66560 | Medium Sale |
| E-Reader           |   8835 | Low Sale    |
| Laptop             |  11392 | Low Sale    |
| Laptop             | 130921 | High Sale   |
| Tablet             |  38560 | Medium Sale |
| External Hard Drive| 106323 | High Sale   |
| Tablet             |  24558 | Low Sale    |
| Smartphone         |  56704 | Medium Sale |
| Smartwatch         |  11790 | Low Sale    |
| Headphones         | 177660 | High Sale   |
| Printer            |  95715 | High Sale   |
| Desktop PC         |  37709 | Medium Sale |
| Desktop PC         | 118344 | High Sale   |
| Camera             |  70065 | Medium Sale |
| Smartwatch         |  21786 | Low Sale    |
```

JOINS

1. CROSS JOIN


```
mysql> SELECT    A.Sales,    A.Product,    B.Quantity,    B.State FROM tech_products A CROSS JOIN tech_products B;
+--------+--------------------+----------+-------------------+
| Sales  | Product            | Quantity | State             |
+--------+--------------------+----------+-------------------+
|  20192 | Tablet             |       20 | Arunachal Pradesh |
|  25636 | Tablet             |       20 | Arunachal Pradesh |
|  51728 | Camera             |       20 | Arunachal Pradesh |
|  69768 | Printer            |       20 | Arunachal Pradesh |
|  50004 | Desktop PC         |       20 | Arunachal Pradesh |
|  11062 | Laptop             |       20 | Arunachal Pradesh |
|  78552 | Tablet             |       20 | Arunachal Pradesh |
|  38898 | Smartwatch         |       20 | Arunachal Pradesh |
|  27441 | Tablet             |       20 | Arunachal Pradesh |
|  14592 | Camera             |       20 | Arunachal Pradesh |
|   3311 | Smartwatch         |       20 | Arunachal Pradesh |
|  18590 | Smartwatch         |       20 | Arunachal Pradesh |
|  18872 | Desktop PC         |       20 | Arunachal Pradesh |
|  15788 | Printer            |       20 | Arunachal Pradesh |
| 118872 | Headphones         |       20 | Arunachal Pradesh |
|   6120 | Headphones         |       20 | Arunachal Pradesh |
| 108216 | Smartwatch         |       20 | Arunachal Pradesh |
|  49542 | Smartwatch         |       20 | Arunachal Pradesh |
|  29892 | Desktop PC         |       20 | Arunachal Pradesh |
|  19650 | Camera             |       20 | Arunachal Pradesh |
|   6723 | Headphones         |       20 | Arunachal Pradesh |
|  75050 | Camera             |       20 | Arunachal Pradesh |
|  85235 | External Hard Drive|       20 | Arunachal Pradesh |
|  14486 | Smartwatch         |       20 | Arunachal Pradesh |
|  50536 | Camera             |       20 | Arunachal Pradesh |
|  33921 | Laptop             |       20 | Arunachal Pradesh |
```

POWER BI

CLEANING DATA FROM AFTER TRSFORM THE DATA.

RENAME VALUE :-

CAPITILIZED FOR EACH WORD

TRIM

DAX FORMULA

TOTAL AVERGE FORMULA

TOTAL SALES
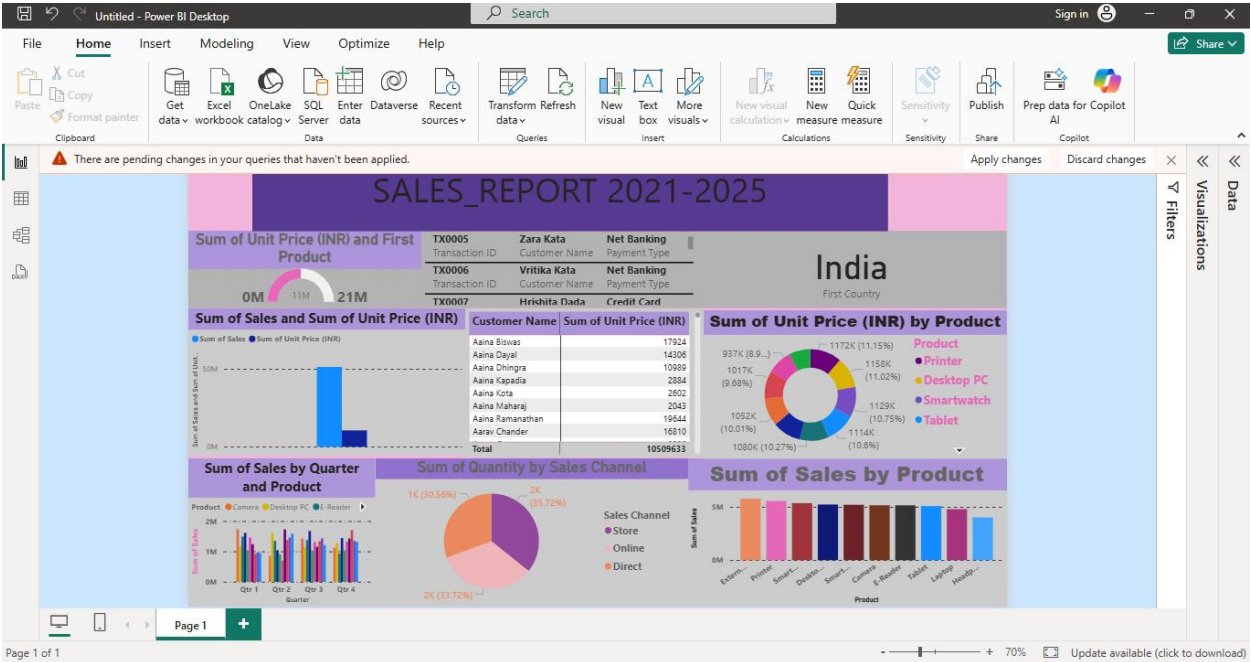
TOTALQUANTITY

DASHBORD

CONCLUSIONE

The sales report revealed important insights such as high-performing products, regional sales distribution, seasonal trends, and customer purchase behavior. By visualizing and analyzing the data, the project highlights opportunities to increase revenue, optimize inventory, and improve overall sales performance.