

# DE-TASK 4

Bytewise Ltd



JULY 1, 2024
JAHANZEB AHMED

## DE - Task 2

## **Table Queries:**

```
CREATE TABLE mypublic."cities"(
        city_id VARCHAR(100) PRIMARY KEY,
        name VARCHAR(100),
        province VARCHAR(100),
        country VARCHAR(100),
        status VARCHAR(100)
);
CREATE TABLE mypublic."categories"(
        category_id VARCHAR(100) PRIMARY KEY,
        name VARCHAR(100),
        status VARCHAR(100),
        description VARCHAR(200)
);
CREATE TABLE mypublic."customers"(
        customer_id VARCHAR(100) PRIMARY KEY,
        name VARCHAR(100),
        phone VARCHAR(50),
        location VARCHAR(100),
        status VARCHAR(50)
);
CREATE TABLE mypublic."items"(
        item_id VARCHAR(100) PRIMARY KEY,
```

```
order_id VARCHAR(100),
         product_id VARCHAR(100),
         amount FLOAT,
         status VARCHAR(30),
         item_timestamp TIMESTAMP
);
CREATE TABLE mypublic."orders"(
        order_id VARCHAR(100) PRIMARY KEY,
         customer_id VARCHAR(100),
         status VARCHAR(30),
         order_timestamp TIMESTAMP,
         total_amount FLOAT
);
CREATE TABLE mypublic."products"(
         product_id VARCHAR(100) PRIMARY KEY,
         name VARCHAR(30),
         supplier_id VARCHAR(100),
         category VARCHAR(30),
         price FLOAT,
         stock_available INT,
         status VARCHAR(30),
         product_createtimestamp TIMESTAMP
);
CREATE TABLE mypublic."suppliers"(
         supplier_id VARCHAR(100) PRIMARY KEY,
         name VARCHAR(100),
```

```
phone VARCHAR(50),
location VARCHAR(50),
status VARCHAR(30),
category VARCHAR(20)
);
```

## **Importing Tables into Database:**

Example:

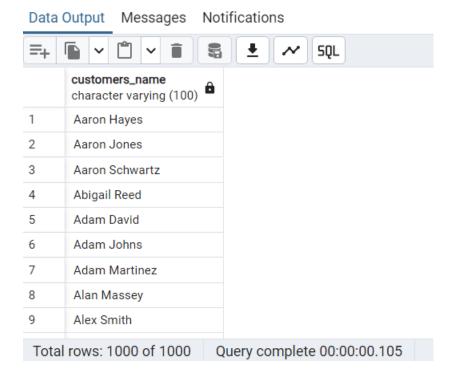
COPY mypublic."cities" FROM 'C:\Users\DELL\OneDrive\Desktop\New Database\cities.csv' CSV HEADER;

**Q1:** Write a query to fetch all customer names and sort them alphabetically. (Topic Soring)

## **Query:**

SELECT name AS customers\_name FROM mypublic.customers

ORDER BY name;



**Q2:** Write a query to fetch all product names and their prices, sorted by price from low to high. (Topic Sorting)

## **Query:**

SELECT name AS product\_name, price

FROM mypublic.products

ORDER BY price;

#### Notifications Data Output Messages =+ SQL product\_name price character varying (30) double precision 1 deal 11.1 2 interview 12.37 3 step 12.72 4 especially 12.74 5 game 12.78 6 level 13.59 7 include 13.75 8 their 16.27 9 build 17.25 Query complete 00:00:00.113 Total rows: 1000 of 1000

**Q3:** Write a query to fetch supplier names that start with the letter 'A' and sort them by their names. (Topic Sorting with Operators and Wildcards)

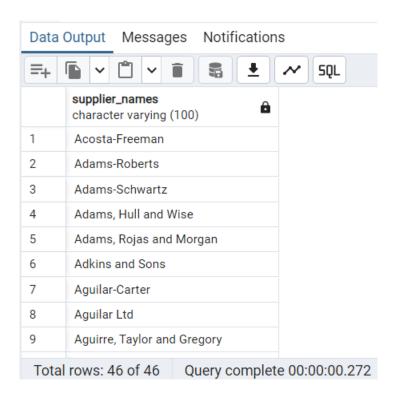
## Query:

SELECT name AS supplier\_names

FROM mypublic.suppliers

WHERE name LIKE 'A%'

ORDER BY name;



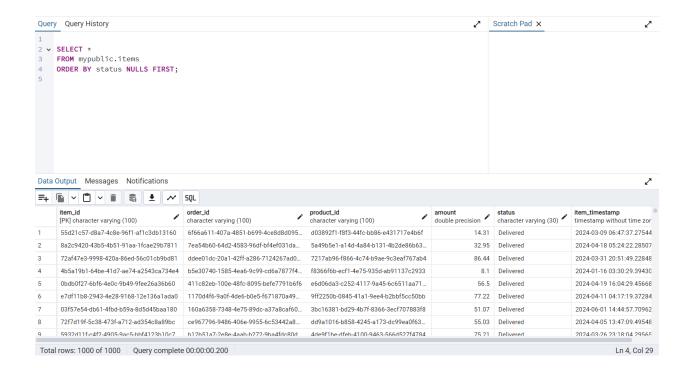
**Q4:** Write a query to fetch all items and sort them by their status, placing NULL values first.

## **Query:**

SELECT \*

FROM mypublic.items

ORDER BY status NULLS FIRST;



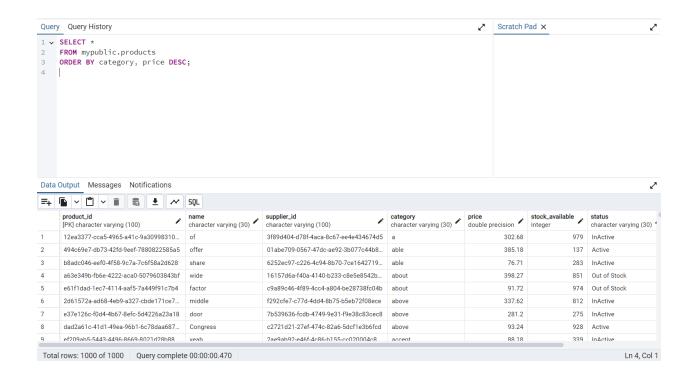
**Q5:** Write a query to fetch all products, sort them first by category and then by price in descending order.

#### Query:

SELECT \*

FROM mypublic.products

ORDER BY category, price DESC;



**Q6:** Write a query to fetch all customer names and phone numbers, but sort them by the last four digits of their phone numbers in ascending order. (Hint use sorting with substings)

### Query:

SELECT name, phone

FROM mypublic.customers

ORDER BY substr(phone, length(phone)-4);

## Query Query History

- 1 v SELECT name, phone
- 2 FROM mypublic.customers
- 3 ORDER BY substr(phone, length(phone)-4);

## Data Output Messages Notifications

=+ <b>6 v 1 v 1 5 0 L</b>		
	name character varying (100)	phone character varying (50)
1	Ashley Cobb	001-587-449-0043
2	Erin Ward	+1-640-549-0044
3	Abigail Reed	203-341-0115
4	Curtis Holt	587-441-0140
5	Bradley Weeks	(918)461-0244
6	Lisa Ford	001-677-627-0290
7	Mary Taylor	(458)396-0347
8	Brent Petty	704-826-0368
9	Kendra Quinn	637-991-0372

Total rows: 1000 of 1000 Query complete 00:00:00.188