# DAY 6 SQL Assignment

# PostgreSQL

## 1. Categorize products by stock status

(Display product_name, a new column stock_status whose values are based on below condition  units_in_stock = 0  is 'Out of Stock' units_in_stock < 20  is 'Low Stock')

**QUERY**:

SELECT product_name,

CASE

       WHEN units_in_stock = 0 THEN 'Out of Stock'

       WHEN units_in_stock < 20 THEN 'Low Stock'

ELSE 'Available'

END AS stock_status

FROM products

ORDER BY stock_status;

**OUTPUT:**

## 2. Find All Products in Beverages Category

(Subquery, Display product_name,unitprice)

**QUERY**:

SELECT product_name, unit_price

FROM products

WHERE category_id = (

      SELECT category_id

      FROM categories

      WHERE category_name = 'Beverages');

**OUTPUT:**

| | product_name<br>character varying (40) | unit_price<br>real |
|---|---|---|
| 1 | Chai | 18 |
| 2 | Chang | 19 |
| 3 | Guaraná Fantástica | 4.5 |
| 4 | Sasquatch Ale | 14 |
| 5 | Steeleye Stout | 18 |
| 6 | Côte de Blaye | 263.5 |
| 7 | Chartreuse verte | 18 |
| 8 | Ipoh Coffee | 46 |
| 9 | Laughing Lumberjack Lager | 14 |

Total rows: 12    Query complete 00:00:00.214

3. Find Orders by Employee with Most Sales

(Display order_id,   order_date,  freight, employee_id.

Employee with Most Sales=Get the total no.of of orders for each employee then order by DESC and limit 1. Use Subquery)

**QUERY**:

SELECT order_id, order_date, freight, employee_id

FROM orders

WHERE employee_id = (

      SELECT employee_id

      FROM orders

      GROUP BY employee_id

      ORDER BY COUNT (*) DESC

LIMIT 1);

**OUTPUT:**

| | order_id [PK] smallint | order_date date | freight real | employee_id smallint |
|---|---|---|---|---|
| 1 | 10250 | 1996-07-08 | 65.83 | 4 |
| 2 | 10252 | 1996-07-09 | 51.3 | 4 |
| 3 | 10257 | 1996-07-16 | 81.91 | 4 |
| 4 | 10259 | 1996-07-18 | 3.25 | 4 |
| 5 | 10260 | 1996-07-19 | 55.09 | 4 |
| 6 | 10261 | 1996-07-19 | 3.05 | 4 |
| 7 | 10267 | 1996-07-29 | 208.58 | 4 |
| 8 | 10281 | 1996-08-14 | 2.94 | 4 |
| 9 | 10282 | 1996-08-15 | 12.69 | 4 |

Total rows: 156    Query complete 00:00:00.339

4. Find orders  where for country!= 'USA' with freight costs higher than any order from USA. (Subquery, Try with ANY, ALL operators)

**QUERY**:

SELECT order_id, order_date, freight, ship_country

FROM orders

WHERE ship_country != 'USA' AND freight > ALL (

  SELECT freight

  FROM orders

  WHERE ship_country = 'USA');

```sql
SELECT order_id, order_date, freight, ship_country

FROM orders

WHERE ship_country != 'USA' AND freight > ANY (

    SELECT freight

    FROM orders

    WHERE ship_country = 'USA');
```

**OUTPUT:**

| order_id [PK] smallint | order_date date | freight real | ship_country character varying (15) |
|---|---|---|---|
| 10372 | 1996-12-04 | 890.78 | Brazil |
| 10540 | 1997-05-19 | 1007.64 | Germany |

| order_id [PK] smallint | order_date date | freight real | ship_country character varying (15) |
|---|---|---|---|
| 10248 | 1996-07-04 | 32.38 | France |
| 10249 | 1996-07-05 | 11.61 | Germany |
| 10250 | 1996-07-08 | 65.83 | Brazil |
| 10251 | 1996-07-08 | 41.34 | France |
| 10252 | 1996-07-09 | 51.3 | Belgium |
| 10253 | 1996-07-10 | 58.17 | Brazil |
| 10254 | 1996-07-11 | 22.98 | Switzerland |
| 10255 | 1996-07-12 | 148.33 | Switzerland |
| 10256 | 1996-07-15 | 13.97 | Brazil |

Total rows: 703    Query complete 00:00:00.192