

BI

Part-1

SQL

Initialization And Table Creation:

Code:

```
CREATE DATABASE Foodpanda;
USE Foodpanda;
CREATE TABLE Orders(rdbms_id INT(3),
                    country_name VARCHAR(100),
                    date_local DATETIME,
                    vendor_id INT(10),
                    customer_id INT(10),
                    gmv_local Double,
                    is_voucher_used CHAR(10),
                    is_successful_order CHAR(10)
);
CREATE TABLE Orders1(rdbms_id INT(3),
                    country_name VARCHAR(100),
                    date_local timestamp,
                    vendor_id INT(10),
                    customer_id INT(10),
                    gmv_local Double,
                    is_voucher_used CHAR(10),
                    is_successful_order CHAR(10)
);
```

```
CREATE TABLE Vendors( vendor_id INT(10),
                        rdbms_id INT(3),
                        country_name VARCHAR(100),
                        is_active CHAR(10),
                        vendor_name VARCHAR(100),
                        budget INT(3),
                        chain_id CHAR(10) DEFAULT NULL
);
```

Query – 1: List all the orders that were made in Taiwan

Code:

```
select * from Orders where country_name = 'Taiwan';
```

Output:

	rdbms_id	country_name	date_local	vendor_id	customer_id	gm_v_local	is_voucher_used	is_successful_order
▶	18	Taiwan	2012-10-02 00:00:00	2870	3983	713.7	FALSE	FALSE
	18	Taiwan	2012-10-02 00:00:00	2870	3977	629.2	FALSE	TRUE
	18	Taiwan	2012-10-02 00:00:00	2870	3010	270.3	FALSE	FALSE
	18	Taiwan	2012-10-02 00:00:00	3812	3983	551.1	FALSE	FALSE
	18	Taiwan	2012-10-02 00:00:00	3812	3524	45	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	15797	1228.5	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	34799	732.435	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	15089	2108.41	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	17145	1783.3	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	39968	4029.62	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	26270	1521	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	38333	717.06	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	23726	267.12	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	43010	134.2	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	2870	43004	234.53	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	2870	43008	2532.33	FALSE	FALSE
	18	Taiwan	2014-10-02 00:00:00	2870	29259	17.76	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	42962	19.59	FALSE	TRUE
	18	Taiwan	2014-10-02 00:00:00	3812	42901	332.15	FALSE	FALSE
	18	Taiwan	2014-10-02 00:00:00	3812	11739	21.925	FALSE	TRUE

Query – 2: Find the Total GMV by country

Code:

```
select country_name, round(SUM(gmv_local),2) as total_gmv from Orders group by country_name;
```

Output:

Result Grid			Filter Rows:	
	country_name	total_gmv		
▶	Taiwan	17889.23		
	Singapore	3424.75		
	Thailand	1658.26		

Query – 3: Find the top active vendor by GMV in each country

Code:

```
select B.country_name, ven.vendor_name, B.total_gmv from
    (
        select D.country_name, E.vendor_id, D.total_gmv from
            (
                select country_name, max(A.total_gmv) as total_gmv from
                    (select country_name, vendor_id, round(SUM(gmv_local),2) as total_gmv
                     from Orders group by vendor_id) as A
                group by country_name
            ) as D,
            (
                select country_name, vendor_id, round(SUM(gmv_local),2) as total_gmv
                from Orders group by vendor_id
            ) as E
        where E.total_gmv = D.total_gmv
    ) as B, Vendors ven
where B.vendor_id = ven.vendor_id
order by B.country_name;
```

Output:

Result Grid	Filter Rows:	Export:
country_name	vendor_name	total_gmv
Singapore	IC House	1924.96
Taiwan	Sweet Chinese Desserts	13491.41
Thailand	9th Cafe House	1658.26

Query – 4: Find the top 2 vendors per country, in each year available in the dataset.

Code:

```
select Ft.date_local as year, Ft.country_name, Ft.vendor_name, Ft.total_gmv
from
(
select A.country_name, A.date_local, vn.vendor_name, A.total_gmv ,
ROW_NUMBER() OVER
(PARTITION BY A.country_name, A.date_local
ORDER BY total_gmv DESC) max_count
from
(
select country_name, date_local, vendor_id,
round(SUM(gmv_local),2) as total_gmv from Orders1 group by vendor_id, date_local
) as A left join Vendors as vn ON A.vendor_id = vn.vendor_id
group by A.date_local, A.vendor_id
order by A.date_local asc, A.country_name asc, A.total_gmv desc
) as Ft
where Ft.max_count <= 2;
```

Output:

Result Grid				
Filter Rows:		Export:		
Wrap Cell Content:				
year	country_name	vendor_name	total_gmv	
2012-01-01 00:00:00	Singapore	IC House	119.34	
2012-01-01 00:00:00	Singapore	Canada Paste	89.64	
2012-01-01 00:00:00	Taiwan	I LOVE PIZZAAAAAAAAAAAA	1613.2	
2012-01-01 00:00:00	Taiwan	Sweet Chinese Desserts	596.1	
2012-01-01 00:00:00	Thailand	9th Cafe House	1658.26	
2014-01-01 00:00:00	Singapore	IC House	1805.62	
2014-01-01 00:00:00	Singapore	WS (BM)	768.83	
2014-01-01 00:00:00	Taiwan	Sweet Chinese Desserts	12895.31	
2014-01-01 00:00:00	Taiwan	I LOVE PIZZAAAAAAAAAAAA	2784.62	