Assignment - SQL

1. Write a SQL Query to get all the products available for all the market dates with the Vendor details. Return columns (Product_ID, Market_date, Vendor_ID, Vendor_name)

```
select vi.product_id,vi.market_date,vi.vendor_id,v.vendor_name
from `farmers_market.vendor_inventory`  as vi
left join `farmers_market.vendor` as v
on vi.vendor_id=v.vendor_id ;
```

2. Write a SQL Query to Append columns (Product_ID, Vendor_Id, Booth_number)

Note : Use Union All function

```
select product_id from `farmers_market.product`
union all
select vendor_id from `farmers_market.vendor`
union all
select booth_number from `farmers_market.booth`
```

3. Write a SQL Query to find out how many days it has Rained and Snowed on the same day!

```
select count(*) as days_with_rain_and_snow
from `farmers_market.market_date_info`
where market_rain_flag=1 and market_snow_flag=1 ;
```

4. Write a SQL Query to find out the top 10 customers by purchases considering we have One transactions per customer

```
select cp.customer_id,concat(c.customer_first_name," ",c.customer_last_name) as customer_name,
quantity*cost_to_customer_per_qty as transaction_value
from `farmers_market.customer_purchases` as cp
left join `farmers_market.customer` as c
on cp.customer_id=c.customer_id
order by transaction_value desc
limit 10 ;
```

5. Write a SQL query to find out the sales that have happened at 4pm to 6pm and 7.30pm to 8pm

```
select customer_id,quantity,quantity*cost_to_customer_per_qty as sales,transaction_time
from `farmers_market.customer_purchases`
where (transaction_time>="16:00:00" and transaction_time<="18:00:00")
or (transaction_time>="19:30:00" and transaction_time<="20:00:00")
order by transaction_time ;
```

6. Write a SQL query to find all the customers with Odd customer ID's.

```
select * from `farmers_market.customer`
where mod(customer_id,2)!=0
order by customer_id ;
```

7. Write a SQL query to display product category name and product name.

Note : Perform Crossjoin to get the desired result

```
select product_name,product_category_name
from `farmers_market.product`
cross join `farmers_market.product_category` ;
```