

## **SQL Summary Exercise**

### Data set five:

1. Analyze the tables in the data set. For each table write its purpose, unique id column, data types and size. What do you think are the main columns for analysis?
2. Which tables connect to each other? Which columns connect? What is the purpose of this connection? (It is recommended to create a diagram showing the connection between the tables)
3. For each type of device from which the website is accessed, which website is responsible for the most referrals that ended in an order?
4. Present the amount of views of each page per date.
5. What is the total amount of money paid for each product ?  
What is the average amount of money paid for all the products?  
Solve all in the same query.
6. How many orders were placed that included products created in 2013 and how many refunds were made on each one of these products? Solve all in the same query.

7. For the following query:

```
select *  
from  
    (select sum(o.price_usd) sum_product, o.primary_product_id  
    from [dbo].[DsFive_orders] o  
    join [dbo].[DsFive_products] p  
    on o.primary_product_id=p.product_id  
    where p.product_id in(1,2,3)  
    group by o.primary_product_id  
    )q  
where q.sum_product>300000
```

- a. What is the purpose of the query?
- b. How can the retrieval be optimized?