

Assignment (5 marks)

1. Import the following dataset to your database.
<https://www.mediafire.com/file/4atoldrzbzv6vpo/TSQLV6.sql/file>
2. Write a query that returns all orders happened in June 2021.
3. Write a query that returns orders placed on the day before the last day of the month.
4. Write a query that returns employees with last name containing the letter 'e' twice or more.
5. Write a query that returns orders with total value($qty * unitprice$) greater than 10000.
6. Write a query against the HR.Employees table that returns employees with a last name that starts with a lower case letter.
7. Explain the difference between the following two queries:

Query 1:

```
SELECT empid, COUNT(*) AS numorders  
FROM Sales.Orders  
WHERE orderdate < '20220501'  
GROUP BY empid;
```

Query 2:

```
SELECT empid, COUNT(*) AS numorders  
FROM Sales.Orders  
GROUP BY empid  
HAVING MAX(orderdate) < '20220501';
```

8. Write a query that returns the three ship countries with the highest average freight for orders placed in 2021.
9. Calculate row numbers for orders based on order date ordering (using order id as tiebreaker) for each customer separately.
10. Figure out and return for each employee the gender based on the title of courtesy (Ms., Mrs. - Female, Mr. - Male, Dr. – Unknown)
11. Write a query that returns for each customer the customer ID and region and sort the rows in the output by region in ascending order having NULLs sorted last (after non-NULL values)

Note: that the default in SQL is that NULLs sorted first.