ASSIGNMENT

STUDENT NAME	SUBJECT	ASSIGNMENT TITLE
Mahmoud Ezzat	Data Engineering	Data Modeling & SQL

1- Find the Top of 10 Employees Who Sold the most Number of orders, and order Them in Descending order showing the highest first .

2- Find the Top of 10 Employees Who Sold highest quantity of Sales, in "Beverages" Category and Order Them in Descending order showing the highest first .

3- Design ER Diagram for Defined Database .

Task II:

```sql
select
emp.FirstName as Employee_FirstName,
emp.LastName as Employee_LastName,
count(ord.employeeid) as Number_of_Orders
from w3schools.employees as emp
inner join w3schools.orders ord on ord.employeeid = emp.employeeid
group by emp.employeeid
order by Number_of_orders desc
limit 10;
```

Task III:

```sql
select emp.firstname as Employee_FirstName, emp.lastname as
Employee_LastName,
COALESCE(sum(odd.quantity), 0) as Sold_Most_Beverages
from w3schools.employees as emp
inner join w3schools.orders as ord on emp.EmployeeID = ord.EmployeeID
inner join w3schools.order_details as odd on odd.OrderID = ord.OrderID
inner join w3schools.products as prd on odd.productid = prd.ProductID
where prd.CategoryID in (select cat.CategoryID from w3schools.categories
as cat where cat.CategoryName = "beverages")
group by emp.employeeid
order by sold_most_beverages desc
limit 10;
```

Task III (ERD):

Employees

Employees
employeeID
fistName
lastName
photo
notes
birthDate

Orders

Orders	
orderID	
orderDate	
employeeID	(FK)
customerID	(FK)
shipperID	(FK)

order_details

order_details	
orderDetailID	
quantity	
orderID	(FK)
prductID	(FK)

products

products	
prductID	
productName	
unit	
price	
categoryID	(FK)
supplierID	(FK)

Customers

Customers
customerID
customerName
contactName
address
country
city
postalCode

shippers

shippers
shipperID
shipperName
contactName
phone

categories

categories
categoryID
categoryName
description

Suppliers

Suppliers
supplierID
supplierName
contactName
city
country
postalCOde
address
phone