

## **Section 1: SQL Knowledge**

Using the tables provided in the [Excel](#) file.

You are required to solve and submit your solution on or before the stipulated day. The Sql script can be done on any text editor i.e. Notepad++, Sublime etc.

1. Describe the total sales amount and quantity sold for each product category in the Sales table, along with the corresponding sales employee's first name, last name, and total sales commission earned. Include only those product categories where the total sales amount exceeds 100,000.
2. Identify the top 3 employees based on the total amount of sales they've generated. List their first name, last name, total sales amount, and commission percentage. Exclude any employees who haven't made any sales.
3. Find the top 5 customers who have spent the most money on purchases. List their customer names, email addresses, total amount spent, and the number of orders they've placed. Include only customers who have placed at least 2 orders.
4. Analyze the distribution of sales orders across different order sources. Calculate the percentage of total sales represented by each order source. Display the order source, total sales amount, and the percentage of total sales for each source. Exclude any order sources that contribute less than 5% to the total sales amount.

## **Section 2: Visualization** (Use any Visualization tool of your choice)

Use the 3 Tables in the [Excel](#) file attached (i.e. Sales, Employee, & Category), Analyze and visualize the following questions:

1. How does the total sales amount vary over time?
2. What are the highest-selling product categories?
3. Can we identify any trends/patterns in sales data by order source or delivery mode?
4. Who are the top-spending customers and what products do they typically purchase?
5. Which Product categories generate the most revenue and how does this vary across different regions?
6. What is the average commission earned by each employee?

NB: Provide summary insights at the end of your visualization