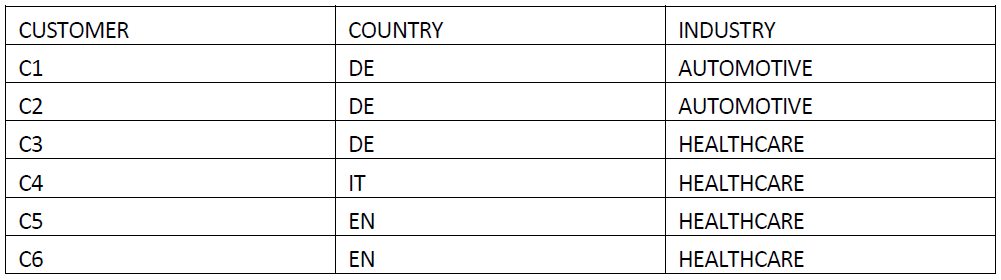
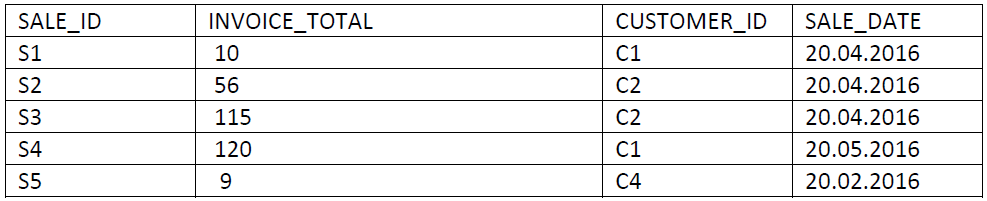
**TASK 2: SQL**

**Table name: Customer**



**Table name: Sales**



1. Write a SQL query that displays the number of customers per industry.

WITH BASE AS (

SELECT INDUSTRY, COUNT(DISTINCT CUSTOMER) AS NUMBER\_OF\_CUSTOMERS

FROM Customer

GROUP BY 1

)

SELECT \*

FROM BASE

1. Write a SQL query that displays the average invoice total per industry.

WITH BASE AS (

SELECT a.INDUSTRY, COALESCE(AVG(b.INVOICE\_TOTAL),0) AS AVERAGE\_INVOICE\_TOTAL

FROM Customer a

LEFT JOIN Sales b ON b.CUSTOMER\_ID = a.CUSTOMER

GROUP BY 1

)

SELECT \*

FROM BASE

c) Write a SQL query that displays what each customer spent per month, if that value is

bigger than 100.

WITH BASE AS (

SELECT DATE\_TRUNC('month',b.SALE\_DATE) AS SALE\_DATE\_MONTH,

a.CUSTOMER,

SUM(b.INVOICE\_TOTAL) AS SUM\_INVOICE\_TOTAL

FROM Customer a

LEFT JOIN Sales b ON b.CUSTOMER\_ID = a.CUSTOMER

GROUP BY 1,2

HAVING SUM(b.INVOICE\_TOTAL) > 100

)

SELECT \*

FROM BASE

d) Write a SQL query that ranks clients within Industry based on respective sales total.

WITH BASE AS (

SELECT a.INDUSTRY,

a.CUSTOMER,

SUM(b.INVOICE\_TOTAL) AS SUM\_INVOICE\_TOTAL

FROM Customer a

LEFT JOIN Sales b ON b.CUSTOMER\_ID = a.CUSTOMER

GROUP BY 1,2

ORDER BY 1,3 desc

)

SELECT a.\*,

RANK() OVER (PARTITION BY a.INDUSTRY ORDER BY a.SUM\_INVOICE\_TOTAL DESC) AS Ranking

FROM BASE a