## Task description:

You given a sql dump with following tables: customers, transactions, markets, products.

- 1) import dump into a relational database of your choice.
- 2) write following sql queries:
  - 2.1) show total revenue in year 2020 in Chennai
  - 2.2) show total revenue in year 2020, January Month
  - 2.3) show the most profitable markets\_name and total sales\_amount for them.
  - 2.4) show the customer who bought the most product Prod048.
  - 2.5) show the average number of products sold per month
  - 2.6) show top 10 customers who have made the most purchases in 2017

3) write script Python or use any BI tool to generate a report that shows the monthly sales trend for each product in 2020. You should plot a line chart to visualise the sales trend for each product. The report should have two sections: a table and a chart. The table should have four columns: month, products, sales (quantity \* amount), and growth rate (percentage change from previous month). The chart should have one line for each product, with the x-axis showing the months and the y-axis showing the sales.

## Task evaluation:

You will be evaluated based on the following criteria:

- · Accuracy: Your code and queries should produce correct and consistent results.
- Efficiency: Your code and queries should run fast and use optimal algorithms and techniques.
- Readability: Your code and queries should follow good coding practices and conventions, such as indentation, naming, comments, etc.
- Documentation: Your code and queries should be well-documented and explained, using comments, doc, etc.
- Presentation: Your report should be clear and concise, using appropriate formats, labels, titles, etc.