Data Analysis Using MySQL

1. Show all customer records
   ```
   SELECT * FROM customers;
   ```
2. Show total number of customers
   ```
   SELECT count(*) FROM customers;
   ```
3. Show transactions for Chennai market (market code for chennai is Mark001
   ```
   SELECT * FROM transactions where market_code='Mark001';
   ```
4. Show distrinct product codes that were sold in chennai
   ```
   SELECT distinct product_code FROM transactions where
   market_code='Mark001';
   ```
5. Show transactions where currency is US dollars
   ```
   SELECT * from transactions where currency="USD"
   ```
6. Show transactions in 2020 join by date table
   ```
   SELECT transactions.*, date.* FROM transactions INNER JOIN date ON
   transactions.order_date=date.date where date.year=2020;
   ```
7. Show total revenue in year 2020,
   ```
   SELECT SUM(transactions.sales_amount) FROM transactions INNER JOIN
   date ON transactions.order_date=date.date where date.year=2020 and
   transactions.currency="INR\r" or transactions.currency="USD\r";
   ```
8. Show total revenue in year 2020, January Month,
   ```
   SELECT SUM(transactions.sales_amount) FROM transactions INNER JOIN
   date ON transactions.order_date=date.date where date.year=2020 and and
   date.month_name="January" and (transactions.currency="INR\r" or
   transactions.currency="USD\r");
   ```
9. Show total revenue in year 2020 in Chennai
   ```
   SELECT SUM(transactions.sales_amount) FROM transactions INNER JOIN
   date ON transactions.order_date=date.date where date.year=2020 and
   transactions.market_code="Mark001";
   ```

NOTE-Made sales schema default and hence not writing sale. everytime

Data Analysis Using Power BI

1. Formula to create norm_amount column

   ```
       = Table.AddColumn(#"Filtered Rows", "norm_amount", each if [currency]
   ="USD#(cr)" then [sales_amount]*75 else [sales_amount], type any)
   ```