### [Sales Insights Data Analysis](https://www.youtube.com/watch?v=hhZ62IlTxYs" \o "Sales Insights Data Analysis Project In Power BI - Part 1 - Problem Statement):

Sales data analysis for a chain hardware shop. The database consists of all the sales transactions, products, customers and the markets information.

Utilized: MYSQL. Generate some insights using SQL, analysed the database, then plugged the MYSQL database with Power BI. In power BI, I have performed ETL and data cleaning operations (performed currency normalization, handling invalid values, Outliers etc) so that I can build the Power BI report (dashboard).

**Done some Data Analysis by MYSQL**

* Display all the customer records

SELECT \* FROM customers;

* Find the total number of customers

SELECT count(\*) FROM customers;

* Find transactions for the Mumbai market (market code for the Mumbai = Mark002)

SELECT \* FROM transactions where market\_code='Mark002';

* Find the distinct product codes that were sold in Mumbai

SELECT distinct product\_code FROM transactions where market\_code='Mark002';

* Find the transactions that are done by US dollars

SELECT \* from transactions where currency="USD"

* Show the transactions in year 2019 join by date table

SELECT transactions.\*, date.\* FROM transactions INNER JOIN date ON transactions.order\_date=date.date where date.year=2019;

* Show the total revenue in year 2019,

SELECT SUM(transactions.sales\_amount) FROM transactions INNER JOIN date ON transactions.order\_date=date.date where date.year=2019 and transactions.currency="INR\r" or transactions.currency="USD\r";

* Show the total revenue in March in year 2019

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="March" and (transactions.currency="INR\r" or transactions.currency="USD\r");

* Show the total revenue in Mumbai in year 2019

SELECT SUM(transactions.sales\_amount) FROM transactions INNER JOIN date ON transactions.order\_date=date.date where date.year=2019 and transactions.market\_code="Mark002";

**In Power BI**

(United States Dollar = 76 Indian Rupee)

1. Formula to create norm\_amount column

= Table.AddColumn(#"Filtered Rows", "norm\_amount", each if [currency] = "USD" or [currency] ="USD#(cr)" then [sales\_amount]\*76 else [sales\_amount], type any)