

Sales Insights Data Analysis Project

Instructions to setup mysql on your local computer

1. Follow step in this video to install mysql on your local computer
<https://www.youtube.com/watch?v=WuBcTJnIuzo>

1. SQL database dump is in db_dump.sql file above. Download `db_dump.sql` file to your local computer and import it as per instructions given in the tutorial video

Data Analysis Using SQL

1. Show all customer records

```
`SELECT * FROM customers;`
```

1. Show total number of customers

```
`SELECT count(*) FROM customers;`
```

1. Show transactions for Chennai market (market code for chennai is Mark001

```
`SELECT * FROM transactions where market_code='Mark001';`
```

1. Show distinct product codes that were sold in chennai

```
`SELECT distinct product_code FROM transactions where market_code='Mark001';`
```

1. Show transactions where currency is US dollars

```
`SELECT * from transactions where currency="USD"`
```

1. 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;`
```

1. 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";`
```

1. 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");`
```

1. 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";`
```

Data Analysis Using Power BI
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1. Formula to create norm_amount column

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