**DPizza Store Project Work flow**

**Step1:** I got a model data for Pizza sales which contains columns like

1. order\_details\_id
2. order\_id
3. pizza\_id
4. quantity
5. order\_date
6. order\_time
7. unit\_price
8. total\_price
9. pizza\_size
10. pizza\_category
11. pizza\_ingredients
12. pizza\_name

**Step2: Imported this data model in my sql work bench**

1. created customers table
2. Fetched **Order wise Details** by making Primary key to order\_id and group by order\_id using select query.
3. Fetched **Pizza wise Details** by making primary key to pizza\_id and grouped by pizza\_id using select query.
4. Fetched **order\_pizza\_id** in one table to make reference with order wise details table and Pizza wise details table. In this table I make foreigner key to order\_id and pizza\_id which is reference to order\_id in orderwise details table and pizza\_id to pizza\_wise details table

**Step3: Imported this data model in Python Jupyter Notebook**

1. Separated list of pizza\_ingredients column from Data model
2. Separated each pizza ingredient by comma “,” using **split(“,”)** method.
3. List converted into set to remove duplicates records.
4. Checked length by using **len()** method and got 73 Ingredients.
5. Created one **SKU\_id** list using range (1,74) method
6. Merged both SKU\_id and **ingredients** into single DataFrame by using dictionary
7. Extracted this table with name **Inventory\_table** by using .to\_xlsx(“Inventory.xlsx”)

**Step4: Imported Inventory Table in Mysql workbench**

1. Added new columns in Inventory Table and columns Name: Opening\_stock, Closing\_stock, UOM, Receiving, TransferIn, TransferOut, wastage, P\_mix, Varience.

**Step5: Create New Table name Recipe**

1. Recipe table contains columns SKU\_id, Item\_Name, all pizza name and total.
2. Items name Inserted into recipe table from Inventory\_table.
3. By Default Inserted 0 to every pizza value

**Step6: Imported Recipe Table in Python**

1. Imported Recipe table in Python Jupyter
2. Find out columns name using recipe.columns
3. Melt the recipe table using melt(recipe, id\_vars="Item\_Name", value\_vars=”put All pizza names here”.
4. Now I got every Item name has 1 pizza name and that value is 0 by default.
5. Exported this recipe table from python using recipe.to\_excel(“recipe.xlsx”)

**Step7: Imported Recipe Table into Mysql DB**

1. Imported Recipe table in Mysql Workbench
2. Now My complete DataBase is ready

**Step8: Connect Mysql DB to Power BI**

1. Imported Pizza database all tables into Power BI
2. Find out Below Insights

* Total Sales
* Total Order
* Total Items
* Sales per Order
* Total sales by Category
* Top 10 Selling Pizza
* No. Of Order per Hours
* Total selling per hours
* Sales by Pizza Size