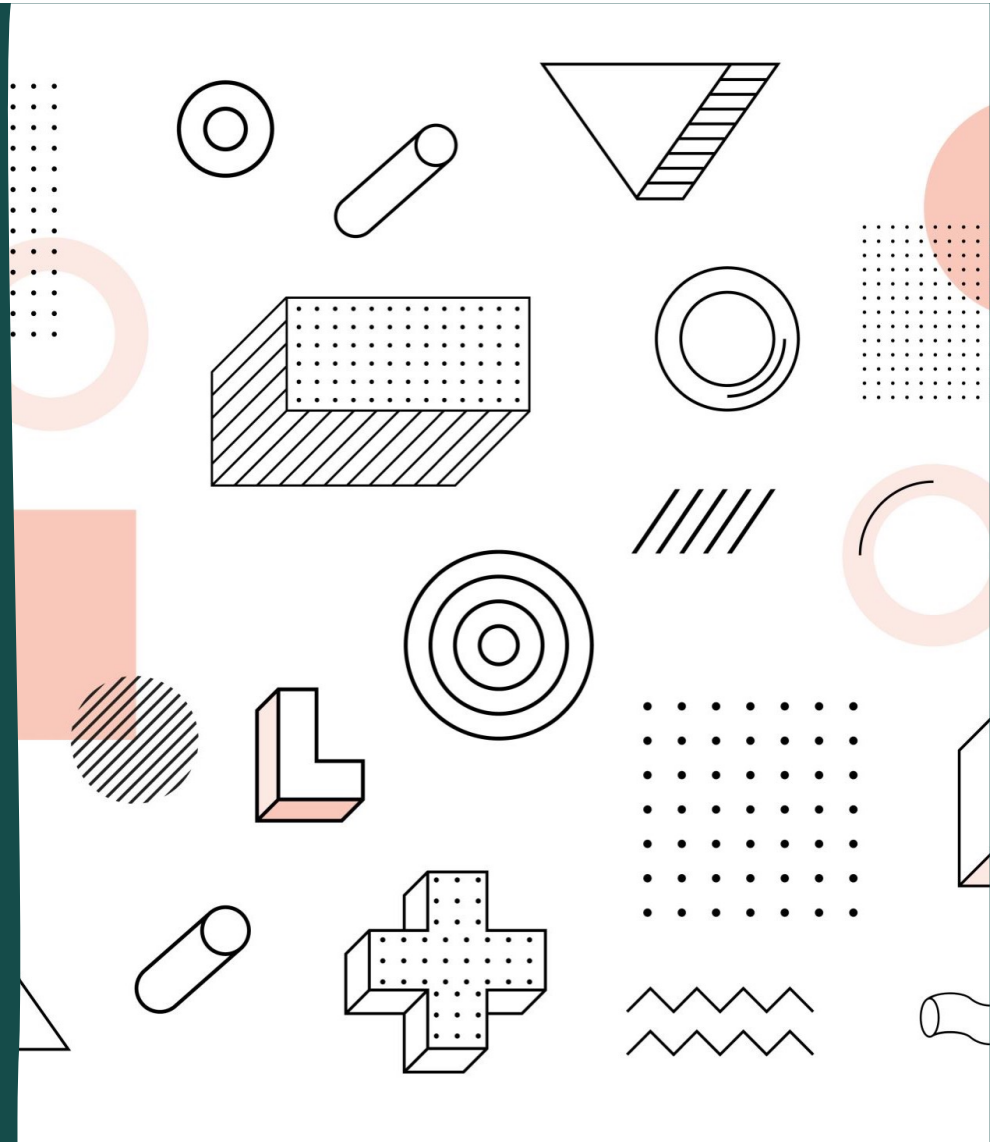


Data Management for Analytics

- Prajwal Gowda



The background of the slide is a close-up photograph of a wooden pencil resting on a piece of paper. The paper features a line graph with a grid. The y-axis has labels for 50 and 100. The x-axis has labels for the years '93 and '98. A line is drawn on the graph, showing an upward trend. The text 'USE CASE STUDY REPORT' is overlaid in the center-left of the image. The words 'USE CASE' are in a smaller font and underlined, while 'STUDY REPORT' is in a larger font and also underlined. There are three green, pill-shaped decorative elements at the top and three at the bottom of the text area.

USE CASE STUDY REPORT

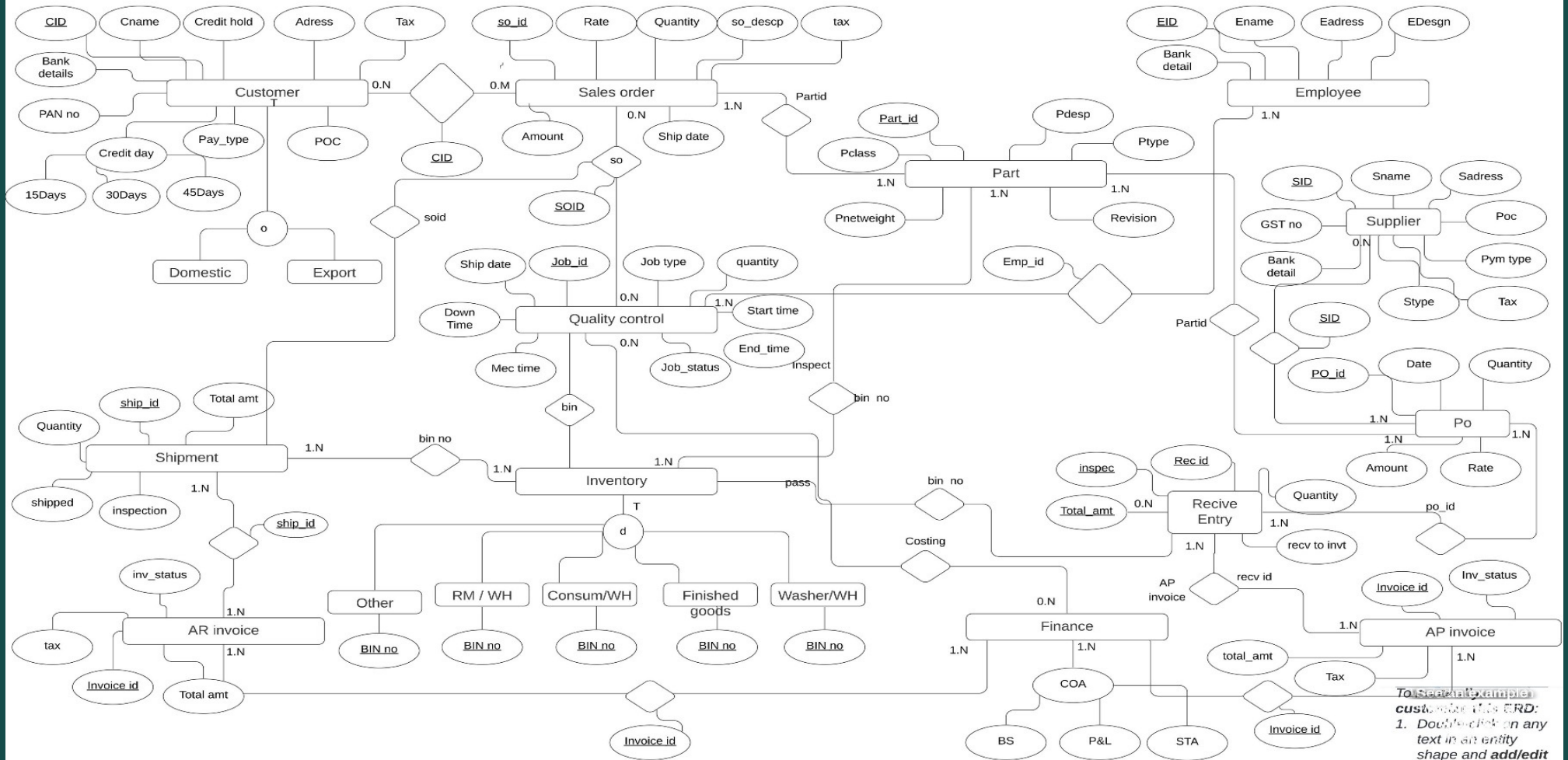
PML is a metal company planning to open a new manufacturing plant in India. The company needs a database system to store all its master and transaction data.

Two business flow of any ERP software are:

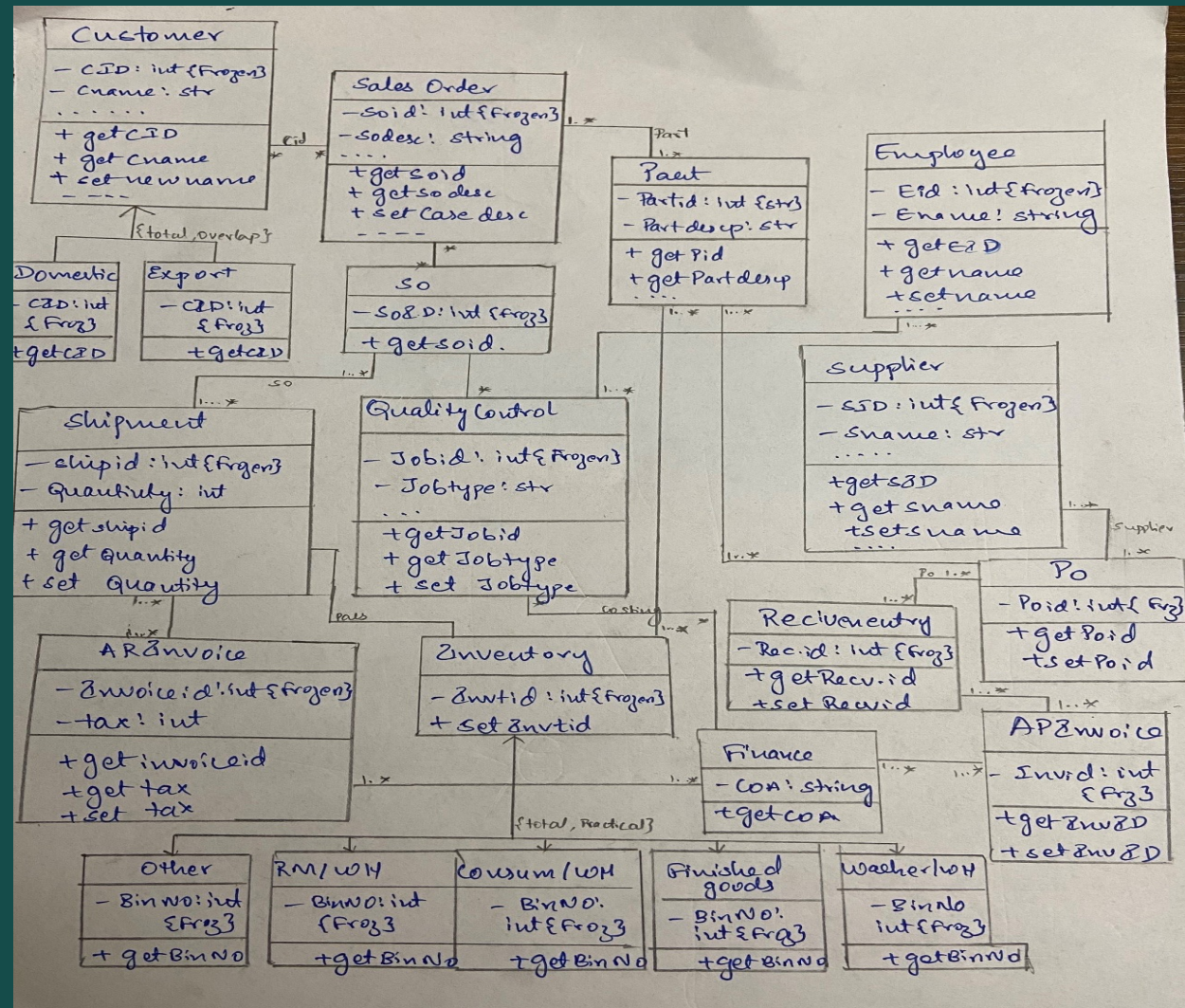
1) Procure to pay:

2) Quote to Cash:

EER Diagram



UML Diagram



MYSQL Implementation

- 1. Find sales order id, customer id, part id, ship id, invoice id and total amount with sales description whose letter or number start with "1%".**
- 2. Find PO ID, Part ID and Quantity using purchase order and describe the duration of quantity that should be completed in one to five days using case when**
- 3. Find supplier id, supplier name, payment type and tax whose purchase order rate is less than equal to 500**

NOSQL Implementation

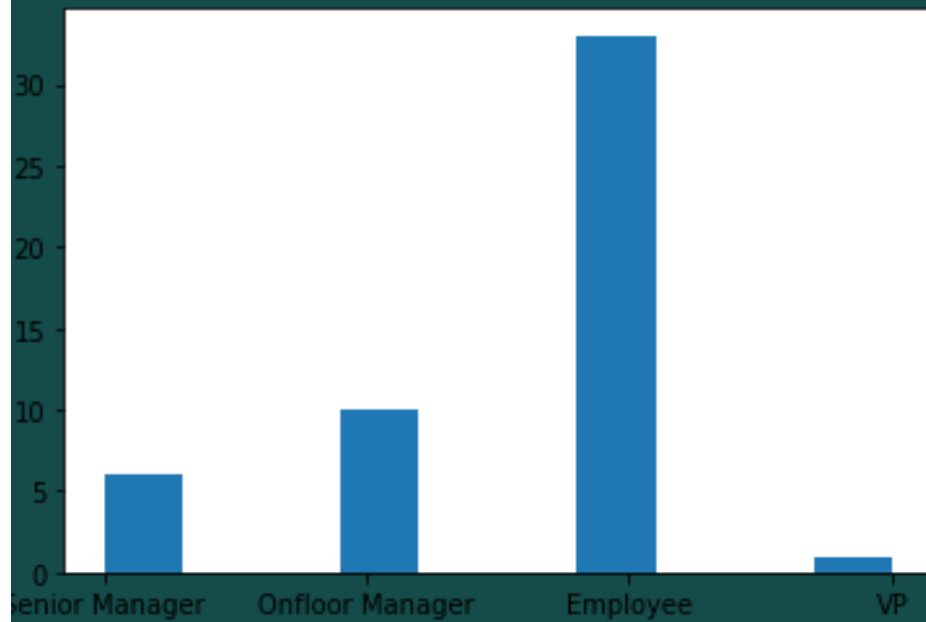
Find customer those tax is 28 and ship id is 4

Find customers with total amount more than 50000

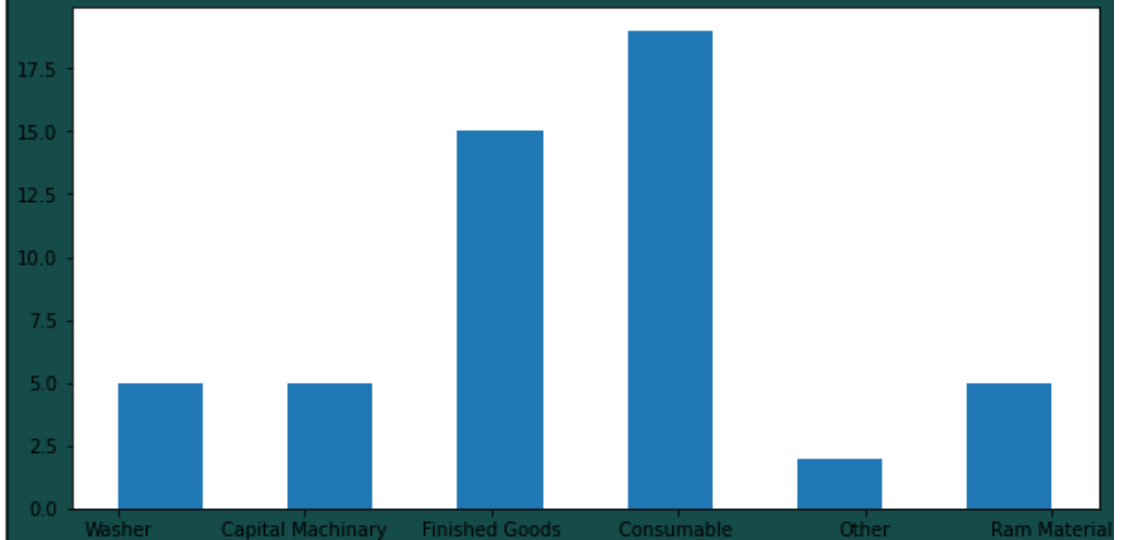
Using Aggregate function find the invoice and total amount which is sorted by total amount = 1.

Database access Via Python

Graph1: Employees and their Designation

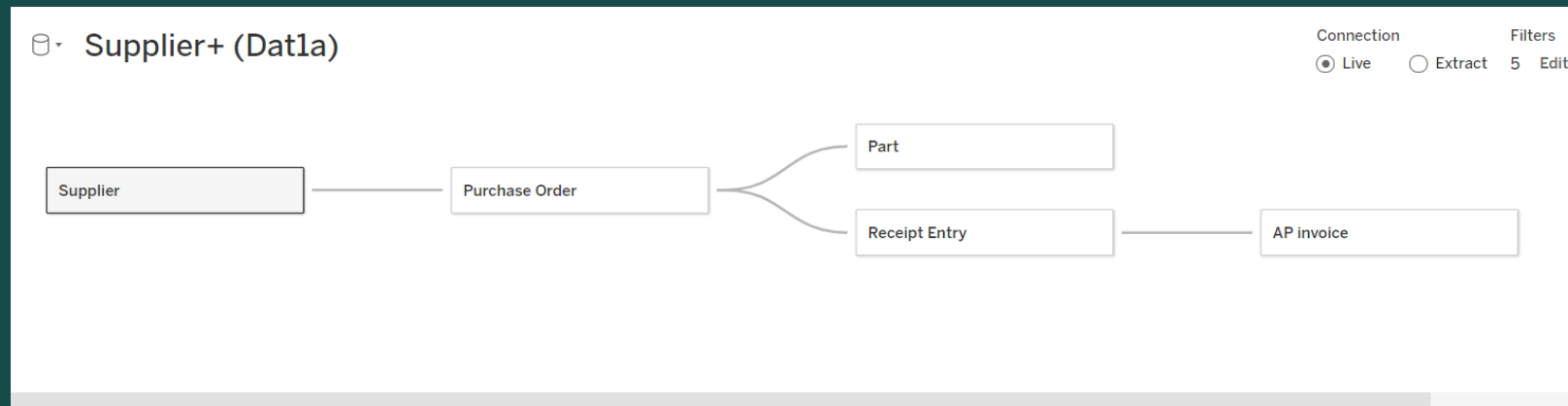


Graph2: Different and number of warehouses in the company

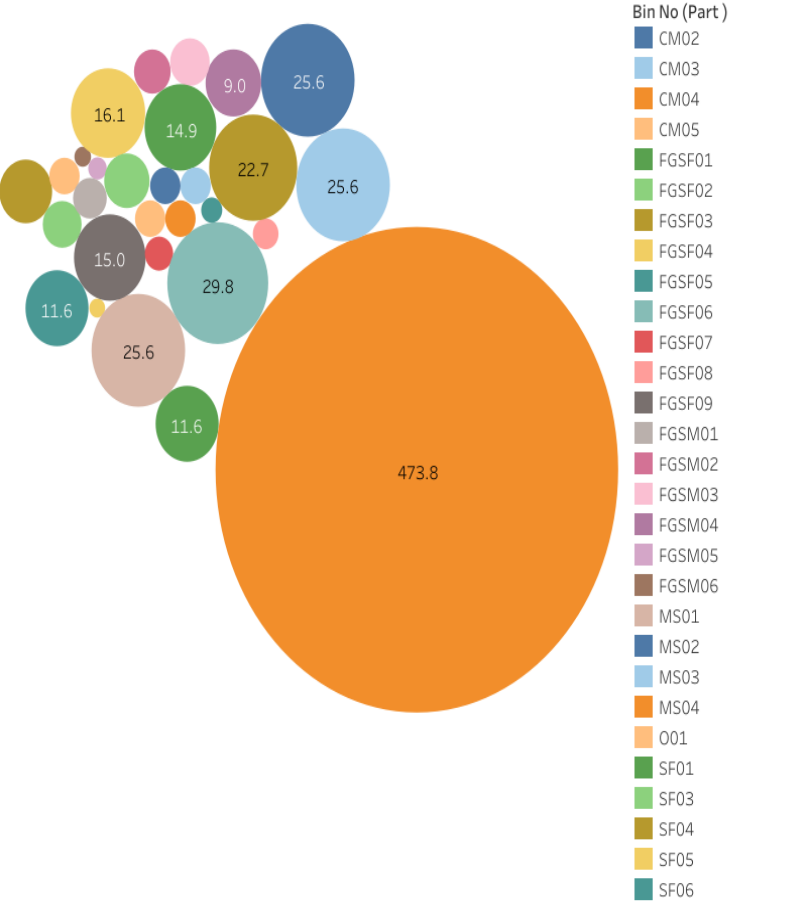


Tableau

Connected procure to pay that is Supplier to AP invoice.



<Part net weight >



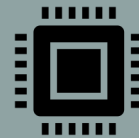
<Supplier with quantity, rate, tax and amount>



Recommendation



The focus was on a metal company but it's a good ERP software for all the manufacture company, who are planning to start a new manufacturing plant.



Adding finance module to the software which is currently not mapped but are designed in the eer and uml mode will bring a light to the software. Specially mapping the accounting system like chart of account, balance sheet, GL control and profit and loss statements etc. will enrich this ERP software can be used by any manufacturing company.