# myriad musings

## From SQL Queries to Tableau Visualizations

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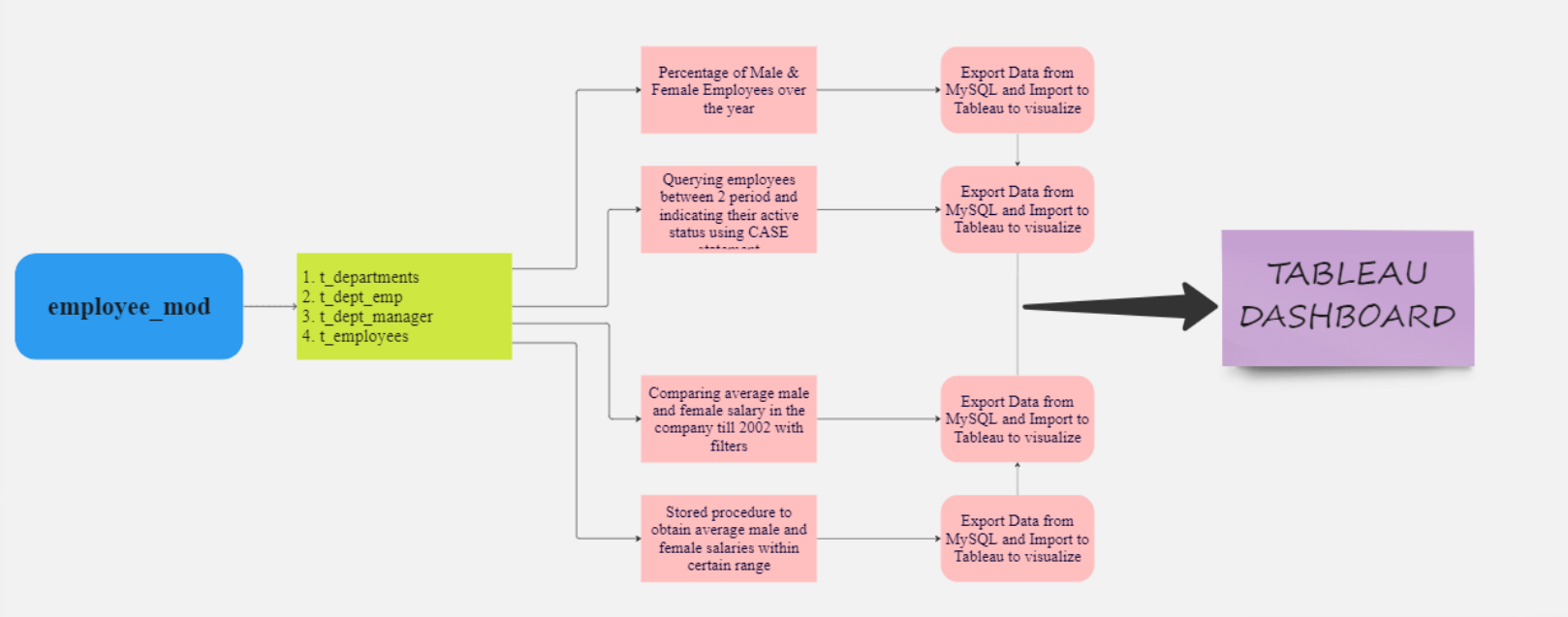
For my next data analysis and visualization challenge, I harnessed the power of SQL for data querying and harnessed Tableau for crafting insightful data visualizations. SQL and Tableau rank as my go-to tools for data analysis, and this project allowed me to delve deeply into SQL's capabilities and its integration with Tableau, enabling the creation of striking visual representations.

To embark on this journey, I turned to an Udemy course titled "**SQL – MySQL for Data Analytics and Business Intelligence**." This course aligned seamlessly with my choice of MySQL as the database management system for data handling and querying. The provided dataset, and the guidance within the course, served as valuable assets throughout this project. While I followed the course's steps to complete this graph, I must acknowledge that it was a pivotal learning experience. From ideation to completion, I actively participated in the process, and I look replicate a similar project independently, potentially with a different dataset in the near future.

Dataset downloaded from: **https://www.dropbox.com/s/lhj4axkaupjhmbq/employees_mod.sql?dl=0**

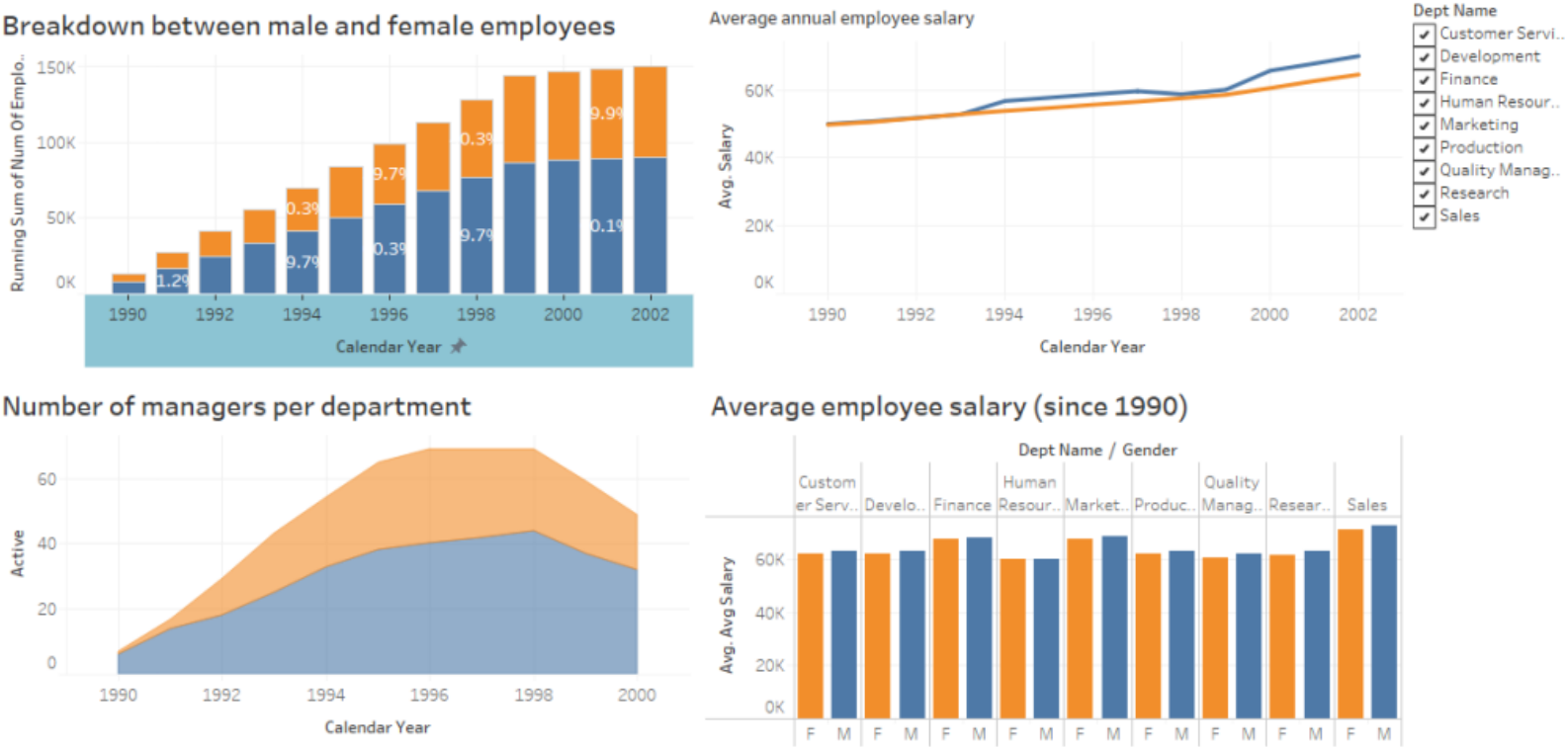
Allow me to walk you through the project's flowchart, illustrating the process:




Tools and Software Employed:

1. Exporting a CSV file containing all the tables. Importing the CSV file into MySQL to populate the database with distinct tables.
2. Applying SQL querying concepts: WHERE, HAVING, GROUP BY, ORDER BY, JOINS, STORED PROCEDURE, AGGREGATE FUNCTION.
3. Tableau: Leveraging Tableau's visualization techniques to depict the output data, which was first extracted from MySQL and subsequently imported into Tableau.
4. Tableau Dashboard: Aggregating the diverse charts with different conditions into a unified dashboard for enhanced data presentation.

This project was an enlightening journey, unveiling several facets of SQL data querying and Tableau data visualization. It




The above image is the final output of the project, but I suggest you explore the project further, by visiting the GitHub repository where I've uploaded the complete project: **GitHub Repository**. It contains the dataset, the SQL commands, Tableau charts.

This project is another step of mine to master the art of data analysis, and I look forward to more opportunities to explore, learn, and create with data.