Employee Data Analysis using Excel

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PROJECT TITLE

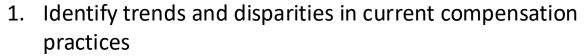
Salary and compensation analysis through Excel data modelling

AGENDA

- 1.Problem Statement
- 2. Project Overview
- 3.End Users
- 4. Our Solution and Proposition
- 5.Dataset Description
- 6.Modelling Approach
- 7. Results and Discussion
- 8. Conclusion



PROBLEM STATEMENT



2. Evaluate internal equity and ensure fair pay for similar roles and performances

3. Assess market competitiveness and adjust compensation to attract and retain top talent

4. Develop a data-driven approach to inform compensation decisions and budget planning

Create a scalable and sustainable compensation model that aligns with business objectives

PROJECT OVERVIEW

1. Data Collection:

- Gather salary and compensation data from various sources (HR systems, surveys, market research)
 - Ensure data accuracy, completeness, and consistency

2. Data Modeling:

- Design an Excel data model to organize and structure the data
- Create tables, relationships, and formulas to facilitate analysis

3. Analysis and Visualization:

- Develop dashboards, reports, and charts to facilitate analysis and insignt
- Include metrics such as:
 - Average salary by role, department, and location
 - Compensation ratios (e.g., salary to market average)
 - Pay equity analysis (gender, ethnicity, etc.)
 - Bonus and benefits analysis.



WHO ARE THE END USERS?

- 1. HR Professionals: Responsible for designing and implementing compensation strategies, they will use the analysis to inform decisions and ensure fair pay practices.
- 2. Compensation Analysts: They will utilize the data model to analyze and interpret compensation data, identifying trends and areas for improvement.
- 3. Business Leaders: CEOs, CFOs, and department heads will use the insights to make strategic decisions about talent management, budgeting, and resource allocation.
- 4. Line Managers: They will use the analysis to understand market rates, make informed hiring decisions, and manage employee expectations.
- 5. Finance Teams: They will utilize the data to budget and forecast compensation expenses, ensuring alignment with organizational financial goals.

OUR SOLUTION AND ITS VALUE PROPOSITION



- A comprehensive Excel-based data model that integrates and analyzes salary and compensation data from various source
- Automated data visualization dashboards and reports providing insights on
- Market competitiveness
- Pay equity and fairness
- Compensation trends and disparities
- Budgeting and forecasting-
- Identification of areas for improvement and recommendations for compensation adjustments and policy changes

Dataset Description

This dataset contains employee data for salary and compensation analysis, including demographic, performance, and compensation information.

- 1. *Employee ID* (unique identifier
- 2. *Job Title*
- 3. *Department*
- 4. *Location*
- 5. *Base Salary* (annual)
- 6. *Bonus* (annual)
- 7. *Benefits* (total value)
- 8. *Performance Rating* (scale: 1-5)
- 9. *Years of Experience*
- 10. *Education Level* (categorical)
- 11. *Gender*
- 12. *Age

THE "WOW" IN OUR SOLUTION

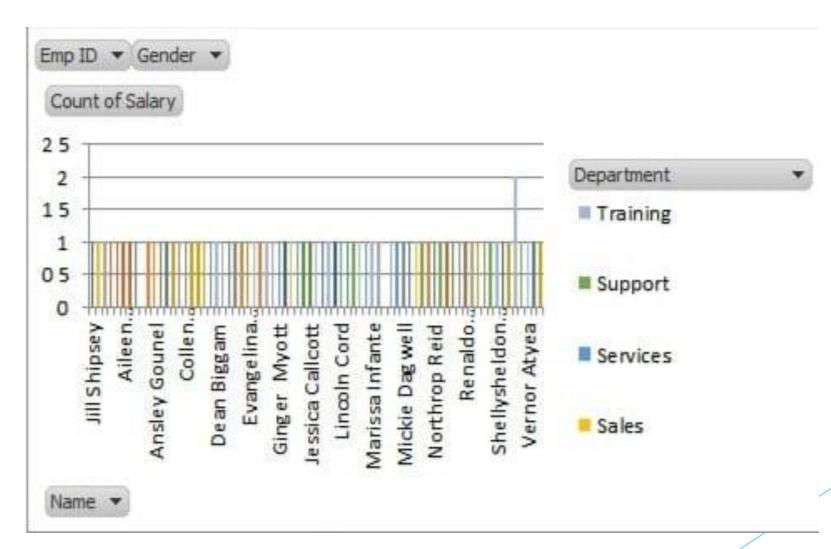
- 1. *Interactive Dashboard*: A user-friendly, interactive dashboard that allows stakeholders to explore salary and compensation data in real-time, with intuitive filters and drill-down capabilities.
- 2. *Predictive Analytics*: Leveraging Excel's data modeling capabilities, we can build predictive models to forecast salary and bonus amounts based on historical trends, performance metrics, and market data.
- 3. *Automated Reporting*: Automated reports that provide actionable insights, eliminating manual data analysis and reducing reporting time by up to 90%.
 - *Data Visualization*: Interactive and dynamic visualizations that reveal hidden patterns, trends, and correlations in the data, enabling data-driven decisions.
 - *What-If Scenario Modeling*: The ability to model different scenarios, such as changes in market conditions or internal policies, to predict their impact on salary and compensation costs.



MODELLING

- 1. *Data Tables*: Organized tables for employee data, salary, benefits, performance ratings, and market data.
- 2. *Relationships*: Established connections between tables to enable seamless data analysis and reporting.
- 3. *Measures*: Calculated fields for metrics like average salary, bonus percentage, and total compensation.
- 4. *Dimensions*: Fields used to slice and dice data, such as job title, department, location, and performance rating.
- 5. *Hierarchies*: Logical groupings of dimensions to enable drill-down analysis (e.g., location \rightarrow region \rightarrow country).
- 6. *KPIs*: Key performance indicators like pay equity ratio, salary range penetration, and bonus payout percentage.

RESULTS



conclusion

Salary and Compensation Analysis through Excel data modeling offers a powerful solution for organizations to optimize their compensation strategies. By leveraging Excel's data modeling capabilities, organizations can:-

- -Gain actionable insights into pay equity, market positioning, and compensation trends
- -Develop data-driven recommendations for salary adjustments, bonus and merit increase optimization, and-compensation package design
- -Enhance diversity, equity, and inclusion initiatives
- Improve budgeting and forecasting accuracy
- -Drive business outcomes, including competitive advantage, cost savings, and regulatory compliance