



HR Data analysis Project.

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Data Used

Data - HR Data with over 22000 rows from the year 2000 to 2020.

Data Cleaning & Analysis - MySQL Workbench

Data Visualisation - PowerBl

Questions

- 1. What is the gender breakdown of employees in the company?
- 2. What is the race/ethnicity breakdown of employees in the company?
- 3. What is the age distribution of employees in the company?
- 4. How many employees work at headquarters versus remote locations?
- 5. What is the average length of employment for employees who have been terminated?
- 6. How does the gender distribution vary across departments and job titles?
- 7. What is the distribution of job titles across the company?
- 8. Which department has the highest turnover rate?
- 9. What is the distribution of employees across locations by state?
- 10. How has the company's employee count changed over time based on hire and term dates?
- 11. What is the tenure distribution for each department?

Summary of Findings

- There are more male employees than Female.
- White race is the most dominant while Native Hawaiian and American Indian are the least dominant.
- The youngest employee is 21 years old and the oldest is 58 years old.
- 5 age groups were created (18-24, 25-34, 35-44, 45-54, 55-64). A large number of employees were between 25-34 followed by 35-44 while the smallest group was 55-64.
- A large number of employees work at the headquarters versus remotely.
- The average length of employment for terminated employees is around 7 years.
- The gender distribution across departments is fairly balanced but there are generally more male than female employees.
- The Marketing department has the highest turnover rate followed by Training. The least turn over rate are in the Research and development, Support and Legal departments.
- A large number of employees come from the state of Ohio.
- The net change in employees has increased over the years.
- The average tenure for each department is about 8 years with Legal and Auditing having the highest and Services, Sales and Marketing having the lowest.

Limitations

- Some records had negative ages, during querying (967 records) found, so we subtracted it from 100, which resolved the issue. Ages used were 18 years and above.
- Some termdates were far into the future and were not included in the analysis(1599 records). The only term dates used were those less than or equal to the current date.

