

salary scale in san Francisco

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Abstract

Analyzing data for a set of data related to the salaries of a company, institution or a particular region requires accuracy in data collection, and therefore we need a base that contains correct data to deal with it easily. This data is an understanding of how the government of Francisco operates, who employs them, and what jobs have the highest employees. This data contains the names, job titles, compensation, and total salaries of San Francisco City employees on an annual basis from 2011 to 2014.

Design

This data was analyzed by reviewing the most jobs that have the largest number of employees and the most desirable jobs in the city and the difference in salaries from 2011 to 2014, calculating the average for each year and reviewing the most and least paid. The results were presented in graphic images that easily simulate this information.

Data

This data has been developed by containing 148,654 records with the names of employees, reviewing annual salaries with the addition of additional salary and other payments and incentives,

calculating the total salary with incentives, and grading the number of jobs according to each year.

Algorithms

- Read the data and then determine the highest paid employees at the city level.
- Calculating the average for salaries with incentives in each year, and we noticed the convergence of the average during the last three years.
- Knowing the number of employees each year and the simple increase according to each year, which means that there is no decline in employment.
- By analyzing the data, we obtained that most employees receive a wage without benefits, approximately 100 thousand.

Preprocessing:

- Check if there are any missing values.
 - Fill in empty values and remove unimportant columns.
 - Edit the type of values .
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Tools

- Use Pandas
 - Matplotlib and Seaborn
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Communication

Create slideshows and visuals .