

SQL Practice Question

QUESTION 1

Using the HR Management data, your company requires you to delve into data analysis using SQL to uncover insights for HR department and visualize the results using Power BI in order to make an informed decisions and strategic workforce planning.

NOTE: Clean data if required

1. What is the gender breakdown in the Company?
2. How many employees work remotely for each department?
3. What is the distribution of employees who work remotely and HQ
4. What is the race distribution in the Company?
5. What is the distribution of employee across different states?
6. What is the number of employees whose employment has been terminated
7. Who is/are the longest serving employee in the organization.
8. Return the terminated employees by their race
9. What is the age distribution in the Company?
10. How have employee hire counts varied over time?
11. What is the tenure distribution for each department?
12. What is the average length of employment in the company?
13. Which department has the highest turnover rate?

QUESTION 2

Business Problem Statement:

The goal of this project is to analyze the Google Play Store Apps dataset to derive insights into the app market. We aim to understand the factors that contribute to an app's success, including user ratings, reviews, and category. Exploring user sentiments towards apps through the analysis of user reviews dataset will provide insights into the popularity of app categories based on total installs and the sentiment polarity of user reviews. The ultimate objective is to offer recommendations for app developers to enhance their app's performance and user satisfaction.

NOTE: Clean data if required

1. Provide the overview of dataset by how many total unique apps and categories in our dataset.
2. Retrieve the unique app categories and the count of apps in each category.
3. Identify the top-rated free apps.

4. Calculate the average rating for each app category.
5. Find the apps with the highest number of reviews.
6. Analyze the average sentiment polarity of user reviews for each app category.
7. Provide the distribution of sentiments across different app categories

QUESTION 3

For the Maven Sales Challenge, you'll play the role of a BI Developer for MavenTech, a company that specializes in selling computer hardware to large businesses. They've been using a new CRM system to track their sales opportunities but have no visibility of the data outside of the platform.

In an effort to become a data-driven organization, you've been asked to create an interactive dashboard that enables sales managers to track their team's quarterly performance.