**Human\_Resources Database**

Regarding the built-in database "human\_resources," I developed queries in MySQL that let me respond to each of the following business inquiries.

**Business Questions to be Answered:**

1. **List all employees who work in the Engineering department within the Austin office**. Report their employee ID, first name, last name, department, and office city.
2. **List all employees who have the role title of “Vice President”**. Report their employee ID, first name, last name, and role title.
3. **List all female employees with the job title of “Director” in the Engineering department**. Report their first name, last name, role title, department name, and office city.
4. **List all employees who work in either the Beijing or Miami offices and also work in the Accounting department.** Report their first name, last name, office city, and department name.
5. **Report all employees at the company who have the letter “c” as the third letter of their last name.** Report their first name and last name.
6. **Report all role titles that have a bonus of at least 10%.** Report role title, salary range minimum, salary range maximum, and bonus percentage. (Note that you do not need to reformat any of these values.)
7. **List all employees who work in the Finance department in the Phoenix office, along with their monthly base salary.** Report their first name, last name, department name, office city, annual base salary, and monthly base salary (“monthly\_base\_sal”).
8. **Report the number of employees who work within each department.** Provide the name of each department as well as the number of employees for each given department (“employee\_count”). Departments should be ordered by highest number of employees to lowest number of employees.
9. **List each department and their average base salaries**. Order your results by highest to lowest average base salary. Report average base salary with a dollar sign ($) and round to the nearest dollar.
10. **List each employee who makes a base salary of $100,000 or more per year.** Report their first name, last name, and annual base salary.
11. **List each role’s average annual base salary. Restrict your results to those roles that have an average base salary of $90,000 or higher.** Report role title, average annual base salary (“avg\_annual\_base\_sal”)
12. **Create a list of each employee** (emp\_id, first\_name, last\_name) **as well as a column called “bonus” that indicates whether that employee receives an annual bonus** (with values of “Y” for yes and “N” for no).
13. Create a copy of your “employees” table and call it “employees\_2”. In this table, include all columns and records from “employees”, but add a column called “age”. Populate this column with each **employee’s age** (in years)**.**
14. Create a table called “employee\_salary”. In this table, include each employee’s employee ID, first name, last name, annual base salary, and bonus percentage.,. Also include the following additional columns:
    * “**bonus\_amt**” (employee’s bonus amount in dollars)
    * **“total\_annual\_comp”** (employee’s total annual compensation including base salary and bonus)
15. **List all roles that have a salary range minimum that is less than $50,000**. Report role\_title, salary\_range\_min, and salary\_range\_max. Order your results by salary\_range\_min (lowest to highest).
16. **List all roles that have a salary range maximum that is at least $50,000 greater than the salary range minimum**. Report role\_title, salary\_range\_min, and salary\_range\_max. Order your results by salary\_range\_max (highest to lowest).
17. **List the salary ranges for each role title**. List the role title, salary range minimum, salary range maximum, and salary range. Order your results by largest salary range to smallest salary range. Round all dollar amounts to the nearest dollar.
18. **Create a list of each employee who works in the Austin office (include first name and last name columns), along with their full office mailing address** in the following format: First Name Last Name, Address 1, Address 2, City, State, Country Postal Code. (Example: John Smith, 14 Oak Drive, Suite 202, Rochester, New York, USA 10026)

**(Note that some fields have commas between them, and some do not.)**

1. Pull a list of **all employees with their respective role title and department** in the following format:

[FIRST INITIAL].[ LAST NAME], [ROLE\_TITLE], [DEPARTMENT]

E.g.: J. SMITH, VICE PRESIDENT, SALES

(Note all caps)

1. **Create a table called “current\_employees”** that includes all data from the “employees” table but is restricted to employees who currently work at the company.
2. **BONUS (+5 POINTS): Report each office’s city along with the percentage of its employees who are female, male, and unspecified** (perc\_female, perc\_male, perc\_unspec). Exclude NULL values from your denominator. (HINT: you are allowed to write multiple queries/create multiple tables to achieve the required results.)
3. **Next year, the company will be providing 3.5% raises to each employee’s base salary. Calculate each employee’s new base salary** in a column called “base\_salary\_2023”. In your results, report each employee’s first name, last name, current base salary (as “base\_salary\_2022”) and “base\_salary\_2023”.
4. **List all employees who have a first name that starts with the letter “J” and a last name that starts with the letter “R”.** Include their emp\_id, first\_name, and last\_name in your results.
5. **Calculate the number of years that each employee has worked at the company (“employment\_years”)** as of the day that you conduct the query**.** Report the employee’s emp\_id, first\_name, last\_name and employment\_years.
6. **Report the number of employees within each combination of office and department.** Report the office\_city, dept\_name, and employee\_count.
7. **Report all employees who were hired between 1/1/19 and 6/30/19**. Report emp\_id, first\_name, last\_name, and hire\_date.
8. **Report all employees who were hired in the month of January of any year**. Report emp\_id, first\_name, last\_name, and hire\_date.
9. **You have been asked to determine if the average annual base salary is greater for Computer Systems Managers or System Administrators. Calculate the average base salary for each role**. Report the role\_title and “avg\_base\_sal”.
10. Create a copy of the “offices” table and call it “offices\_2”. In this table, include all columns and records from “offices”, but **add an additional column called “continent”.** **Populate this column with the continent that the given office is in.**