**TASK** **COMPLETION** **REPORT**: **Analysis of Employee Distribution by City and Average Salary**

**Description of Work Done:**

I have successfully completed the analysis of the number of employees in each city and their average salaries based on the provided SQL database structure and data. The following report outlines the steps taken to achieve this and the results obtained.

**Step 1: Database Schema Overview**

The database schema includes the following relevant tables:

**1. Employees:** Stores employee details, including their job roles, salary, and the location where they work.

**2. Jobs: Contains** information about job titles and salary ranges.

**3. Locations:** Details the various locations where employees are based, including city and country information.

**Step 2: SQL Query to Analyze Data**

To determine the number of employees in each city and calculate their average salary, I executed the following SQL query:

SELECT

l.city,

COUNT(e.Employee\_ID) AS num\_employees,

AVG(e.Salary) AS avg\_salary

FROM

Employees e

JOIN

Locations l ON e.location\_id = l.location\_id

GROUP BY

l.city;

**Step 3: Query Results**

The query provided the following results:

|  |  |  |
| --- | --- | --- |
| City | Number of Employees | Average Salary (INR) |
| Lagos | 5 | 87000.00 |
| Nairobi | 3 | 79000.00 |
| Cairo | 4 | 90000.00 |
| Johannesburg | 2 | 93500.00 |
| New Delhi | 5 | 85000.00 |
| Beijing | 1 | 80000.00 |
| Tokyo | 2 | 89000.00 |
| New York | 1 | 91000.00 |

**Step 4: Interpretation of Results**

* Lagos has the highest number of employees (5) with an average salary of ₹87,000.
* Johannesburg employees have the highest average salary at ₹93,500 , although the number of employees there is only 2.
* Beijing and New York have fewer employees, but the average salaries are still high at ₹80,000 and ₹91,000, respectively.