Oracle Coding Challenge

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**Introduction** :

This project contains a set of SQL and PL/SQL functions to manage employees within a company. It provides various scenarios for manipulating employee data such as creating employees, updating salaries, transferring employees to different departments, and more.

**Function Details** :

Designed and implemented the database schema to store the specified data. This involved creating tables for Departments and Employees with appropriate attributes and constraints to ensure data integrity.

* **Entities**: Departments and Employees
* **Attributes**: For Departments - department\_id (number), department\_name (character), location (character). For Employees - employee\_id (number), employee\_name (character), job\_title (character), manager\_id (number), date\_hired (date), salary (number), department\_id (number).
* **Constraints**: Primary keys for both Departments and Employees tables, foreign key constraint in Employees table referencing department\_id in Departments table for referential integrity.
* **Relationship:** The relationship between Departments and Employees is one-to-many, where one department can have multiple employees. This is established through the foreign key constraint in the Employees table referencing the department\_id primary key in the Departments table.

**Challenges** :

For all the challenges Query is attached along with the run & output screenshots.

1. Create data structure - department\_data, employee\_data

2. Data entry for department\_data, employee\_data

3. Create Employee: Creates a new employee record.

4. Update Employee Salary: Increases or decreases an employee's salary.

5. Transfer Employee: Transfers an employee to a different department.

6. Get Employee Salary: Retrieves the salary of a specific employee.

7. Show Employees by Department: Lists all employees in a specified department.

8. Total Employee Salary for Department: Calculates the total salary of all employees in a department.