Final Project Proposal Employee Payroll Management System
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Name of Project: Employee Payroll Management System

Summary:
1. Employee Information

Employee data is very essential in order to maintain a proper record of the employees and there personal information for various purposes like contacting them for inviting for certain summit, feedback of the company from the employee data

2. Maintaining Salary

Very important to keep this data which will help not only the managers and the HR to keep a track of the employee salaries but also help the company or its board to analyze what amount they are spending on a particular employee of a particular company

3. Work Location

It is very much important for an organization small or big to have a record of all the work locations they operate from to see how they can develop in that particular region and also increase the hiring in that region so that the organization can increase there Market Outreach that area.

4. Projects

In order to be successful company should be involved in various projects, so they also need to maintain the record of the salaries each employee is being paid for a particular type of project he/she is working on

PL/SQL features used in the project:

1. Created Explicit Cursors which shows the hourly pay of the employees associated with there Accounts and Ref cursor showing the employees who are a part of a particular department

2. Create a CDB and a PDB with users to manage the data according to the area of interest

3. Implement pre-defined exception cursor_already_open to demonstrate the understanding of the exceptional handling concept which shows what error will populate when we try to open a cursor which is already open

4. Also, created Relational, Inline and Materialized Views satisfying various business requirements

5. Created Index on AccountDetails table

6. Built an E-R Diagram to know how the entities are related in the payroll management system for any company

List of Entities:

Employee
Employee table will include all the personal details of the employee and would be very much cover overall information of that particular employee

Salary
Salary Table will cover all the current and previous salaries an employee had or currently has. This table will help a manager/ an HR to analyze which employee has been given promotion on which date or when did his salary grade changed

Department
Department Table maintains the data of the all the possible departments an employee can belong to

Account Details
Account Details Table will maintain the data regarding the accounts which the employee has connected with the company for his/her salary to be credited

Attendance
This table includes all the data of the employees attendance which includes the number of hours an employee has worked in a week

Project
This table includes the data of all the projects a particular company is working on or the projects on which the company is going to work in the future

Education
The Education Table keeps the track of the education of the employee including his degrees achieved until now

Work Location
The name of the table tells you most of the things. This table includes the location of the office, which city is it located, which state it is in and also tracks the number of employees in a particular location

Leave
Leave table keeps the record of the number of leaves an employee takes or has taken over the course of any month or an year

Attendance
- Attendance_Id INT
- TotalWorkingHours VARCHAR(45)

Indexes

Employee_has_Attendance
- Employee_Employee_Id INT
- Attendance_Attendance_Id INT

Indexes

WorkLocation
- Location_Id INT
- NameOfLocation VARCHAR(45)
- NumberOfEmployees VARCHAR(...
- State VARCHAR(45)
- City VARCHAR(45)

Indexes

AccountDetails
- Account_Id INT
- BankName VARCHAR(45)
- AccountNumber VARCHAR(45)
- Employee_Employee_Id INT

Indexes

Employee
- Employee_Id INT
- FirstName VARCHAR(45)
- LastName VARCHAR(45)
- City VARCHAR(45)
- State VARCHAR(45)
- HireDate VARCHAR(45)
- Department_Id INT

Indexes

Department
- Department_Id INT
- DepartmentName VARCHAR(45)

Indexes

Department_has_Project
- Department_Department_Id INT
- Project_Project_Id INT

Indexes

Salary
- Salary_Id INT
- Gross_Salary INT
- HourlyPay VARCHAR(45)
- StateTax VARCHAR(45)
- FederalTax VARCHAR(45)
- AccountDetails_Account_Id INT

Indexes

Education
- Education_Id INT
- Employee_Id VARCHAR(45)
- Degree VARCHAR(45)
- GraduationYear VARCHAR(45)
- Employee_Employee_Id INT

Indexes

Leave
- Leave_Id INT
- LeaveDate VARCHAR(45)
- Employee_Employee_Id INT

Indexes

Project
- Project_Id INT
- ProjectName VARCHAR(45)
- ProjectDescription VARCHAR(45)

Indexes