*Dev Note: Use given scripts to create tables.*

Sample data to refer:

**Employee table**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EmpId** | **Name** | **DeptId** | **Project** | **Location** | **DOJ** | **Gender** | **Salary** |
| **1** | **Aditya** | **1** | **P1** | **PUNE** | **2022-12-01** | **F** | **50000** |
| **2** | **Tejaswini** | **2** | **P2** | **DELHI** | **2022-06-02** | **M** | **40000** |
| **3** | **Sanjeev** | **3** | **P3** | **SIKKIM** | **2021-01-01** | **F** | **25000** |
| **4** | **Pranila** | **1** | **P1** | **GOA** | **2020-05-02** | **M** | **45000** |
| **5** | **Sajjan** | **2** | **P2** | **PUNE** | **2019-07-03** | **M** | **30000** |
| **6** | **Ajay** | **1** | **NULL** | **PUNE** | **2023-01-01** | **M** | **50000** |

**Department table**

|  |  |
| --- | --- |
| **DeptId** | **DeptName** |
| 1 | HR |
| 2 | Admin |
| 3 | Account |
| 4 | Sales |

**EmployeesRejoined table (Question 4)**

**EmployeeArchive( Question 10)**

*Dev note: Your query should run with any kind of data and scenarios.*

1. Write a query to display count of males and females working in each department.
2. Write a query to display department name whose minimum salary is greater that the max salary of Accounts department.
3. Write a query to display 3rd highest salary.
4. Write a query to display common employees from **EmployeesRejoined and Employee** table.
5. Create a view which should return below data
   1. EmployeeName
   2. Department Name
   3. Salary
   4. NoOfYearsInOrg (calculated field)- column name should be displayed as **NoOfYearsInOrg** in the result set.
6. WAQ to display employee name who joined first in each department.

(Expected output:

Example: For HR dept, Pranila joined first, so Pranila should appear in the output.)

1. Write a query to get employee names who joined in the month of **December 2022.**
2. Write a query to get names of the department which has less than 3 employees.
3. Write a function which will return employee id of the most recently joined employee.
4. Write a trigger, whenever you insert data into Employee table, same entry should go to **EmployeeArchive** table as well.
5. Write a SP using transactions which would increase salary for employees allocated to a project and belonging to admin department by 10%, also if transaction fails, data should be reverted to its original state, if transaction is successful update should work as expected.
6. WAQ to update project of employee ‘Raj’ to ‘P2’.
7. Modify the above query so that it should update only once. Subsequent runs of the query should not update data.
8. Write a stored procedure which will take @filterColumn and @value as parameter and based on these parameters, when the SP is executed, it should filter results based on this filter(@filter=@value);(use dynamic query)

Example:

* Scenario 1 – If I pass, ‘Project’ as @Filter column and ‘P1’ as value, it should apply where clause as **WHERE Project=’P1’**
* Scenario 1 – If I pass, ‘Location’ as @Filter column and ‘Pune’ as value, it should apply where clause as **WHERE Location=’Pune’**