# Experion ILP-Batch 1
# Task 3

HR- Employee Leave Management System

    a.   Generate a report of leave taken by a particular employee during the month of December 2023

Query:

SELECT

LR.RequestID, LR.EmployeeID, E.FirstName, E.LastName, LR.LeaveTypeID, LT.LeaveTypeName, LT.MaximumDaysAllowed,  LTk.NoOfDaysTaken, LR.StartDate, LR.EndDate, LRS.StatusID, LS.Status AS LeaveStatus, LR.RequestDate

FROM

  leaverequests LR

JOIN

  leavetypes LT ON LR.LeaveTypeID = LT.LeaveTypeID

JOIN

  leavetaken LTk ON LR.EmployeeID = LTk.EmpID AND LR.LeaveTypeID = LTk.LeaveTypeID

JOIN

  leaverequeststatus LRS ON LR.RequestID = LRS.RequestID

JOIN

  leavestatus LS ON LRS.StatusID = LS.StatusID

JOIN

  employee E ON LR.EmployeeID = E.EmpID

WHERE

  LR.StartDate >= '2023-12-01'

  AND LR.EndDate <= '2023-12-31';

Output:

| RequestID | EmployeeID | FirstName | LastName | LeaveTypeID | LeaveTypeName | MaximumDaysAllowed |
|-----------|-----------|-----------|----------|-------------|---------------|--------------------|
| RQ-1 | E-1 | John | Doe | LT-1 | Vacation | 12 |
| RQ-5 | E-2 | Jane | Smith | LT-1 | Vacation | 12 |

| NoOfDaysTaken | StartDate | EndDate | StatusID | LeaveStatus | RequestDate |
|---------------|-----------|---------|----------|-------------|-------------|
| 4 | 2023-12-15 | 2023-12-18 | RsQ-1 | Approved | 2023-12-10 |
| 2 | 2023-12-15 | 2023-12-16 | RsQ-1 | Approved | 2023-12-04 |

b. List all the employees who has taken all the sick leaves for the year 2023.

Query:

SELECT e.EmpID, e.FirstName, e.LastName

FROM employee e

JOIN leaverequests lr ON e.EmpID = lr.EmployeeID

JOIN leavetypes lttype ON lr.LeaveTypeID = lttype.LeaveTypeID

WHERE lttype.LeaveTypeName = 'Sick Leave'

  AND YEAR(lr.RequestDate) = 2023

GROUP BY e.EmpID, e.FirstName, e.LastName

HAVING COUNT(DISTINCT lr.RequestID) = (SELECT COUNT(*) FROM leavetypes WHERE LeaveTypeName = 'Sick Leave');

Output:

| EmpID | FirstName | LastName |
|-------|-----------|----------|
| E-3 | Mark | Johnson |