Employeee Check In and check out Calculation ASSIGNMENT To achieve this using SQL, we can follow these steps: 1. **Create the table**: Set up the table structure to store the check-in and check-out records. **2. Insert the sample data**: Add the sample check-in and check-out records. 3. Query the table: Write an SQL query to compute the required fields for the output table. Step 1: Create the Table CREATE TABLE EmployeeLogins (EmpID INT, Name VARCHAR(50), CheckInTime DATETIME. CheckOutTime DATETIME Step 2: Insert the Sample Data INSERT INTO EmployeeLogins (EmplD, Name, CheckInTime, CheckOutTime) VALUES (1, 'Him', '2024-03-01 10:08:00', '2024-03-01 12:00:00'), (1, 'Him', '2024-03-01 12:30:00', '2024-03-01 15:00:00'), (1, 'Him', '2024-03-01 15:30:00', '2024-03-01 18:08:00'), (2, 'Raj', '2024-03-01 10:10:00', '2024-03-01 12:00:00'), (2, 'Raj', '2024-03-01 13:00:00', '2024-03-01 15:12:00'), (3, 'Anu', '2024-03-01 10:12:00', '2024-03-01 12:00:00'), (3, 'Anu', '2024-03-01 13:00:00', '2024-03-01 18:35:00'); Step 3: Write the Query

SELECT EmpID, Name, MIN(CheckInTime) AS FirstCheckInTime, MAX(CheckOutTime) AS LastCheckOutTime, COUNT(CheckOutTime) AS TotalOutCount, SEC_TO_TIME(SUM(TIMESTAMPDIFF(SECOND, CheckInTime, CheckOutTime))) AS TotalWorkHours FROM **EmployeeLogins GROUP BY** EmpID, Name; **TERMS IN(CheckInTime)**: Finds the earliest check-in time for each employee (FirstCheckInTime). MAX(CheckOutTime): Finds the latest check-out time for each employee (LastCheckOutTime). COUNT(CheckOutTime): Counts the number of times each employee has checked out during the day (TotalOutCount). SUM(TIMESTAMPDIFF(SECOND, CheckInTime, CheckOutTime)): Calculates the total work hours in seconds. **SEC_TO_TIME**: Converts the total work hours from seconds to the HH:MMformat. Adjusting to Output Format HH **SELECT** EmpID, Name, DATE_FORMAT(MIN(CheckInTime), '%d-%m-%Y %H:%i') AS FirstCheckInTime, DATE_FORMAT(MAX(CheckOutTime), '%d-%m-%Y %H:%i') AS LastCheckOutTime, COUNT(CheckOutTime) AS TotalOutCount, CONCAT(LPAD(FLOOR(SUM(TIMESTAMPDIFF(SECOND, CheckInTime, CheckOutTime)) / 3600), '0'), ':', LPAD(FLOOR((SUM(TIMESTAMPDIFF(SECOND, CheckInTime, CheckOutTime)) % 3600) / 60), 2, '0')) AS TotalWorkHours **FROM EmployeeLogins GROUP BY** EmpID, Name;

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