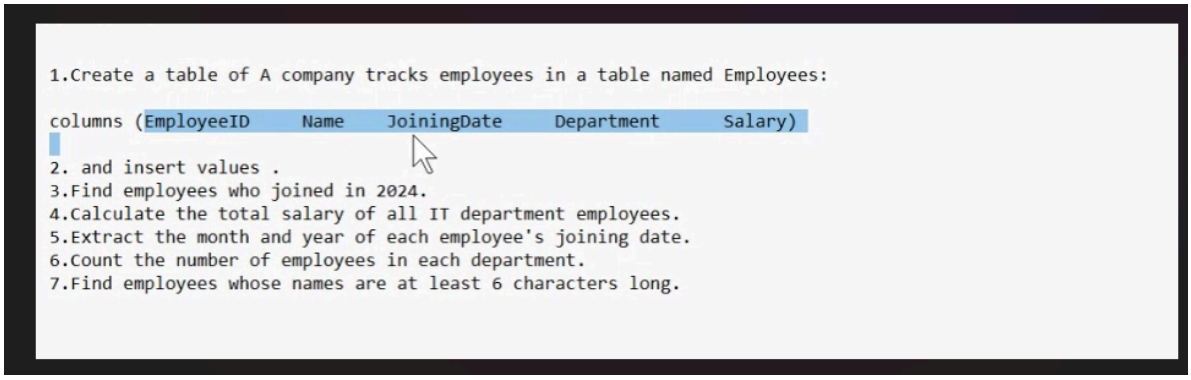
1.Create a table of A company tracks employees in a table named Employees:
columns (EmployeeID Name JoiningDate Department Salary)
2. and insert values .
3.Find employees who joined in 2024.
4.Calculate the total salary of all IT department employees.
5.Extract the month and year of each employee's joining date.
6.Count the number of employees in each department.
7.Find employees whose names are at least 6 characters long.

In [ ]:

```sql
CREATE TABLE Employees (
  EmployeeID INT PRIMARY KEY,
  Name VARCHAR(50),
  JoingDate DATE,
  Dept VARCHAR(10),
  Salary DECIMAL(10,2)
);

INSERT INTO Employees (EmployeeID, Name, JoingDate, Dept, Salary)
VALUES
(1, 'John Doe', '2022-01-01', 'HR', 55000.00),
(2, 'Jane Smith', '2022-02-15', 'IT', 65000.00),
(3, 'James Brown', '2022-03-10', 'Finance', 70000.00),
(4, 'Mary Johnson', '2022-04-25', 'Marketing', 60000.00),
(5, 'Emily Davis', '2022-05-30', 'Sales', 55000.00),
(6, 'Michael Wilson', '2022-06-20', 'HR', 58000.00),
(7, 'David Taylor', '2022-07-18', 'IT', 68000.00),
(8, 'Sarah Moore', '2022-08-02', 'Finance', 72000.00),
(9, 'Robert Lee', '2022-09-12', 'Marketing', 61000.00),
(10, 'Linda Harris', '2024-10-05', 'Sales', 54000.00);

-- WHO Joined in 2024
SELECT *
FROM
  Employees
WHERE EXTRACT(YEAR FROM JoingDate) = 2024;


-- SUM OF IT Salary
SELECT SUM(Salary) AS SUM_IT
FROM
  Employees
WHERE Dept="IT";


-- extract Year and Month
SELECT EXTRACT(YEAR FROM JoingDate) AS YEAR, EXTRACT(MONTH FROM
JoingDate) AS MONTH
FROM
  Employees;


-- count for each dept
SELECT COUNT(*) AS CNT ,Dept
FROM
  Employees
GROUP BY Dept;


-- Name lenght >= 6
SELECT Name
FROM Employees
WHERE LENGTH(Name) >= 6;
```

Output:

EmployeeID	Name	JoingDate	Dept	Salary
10	Linda Harris	2024-10-05	Sales	54000.00

SUM_IT
133000.00

YEAR	MONTH
2022	1
2022	2
2022	3
2022	4
2022	5
2022	6
2022	7
2022	8
2022	9
2024	10

```
+-----+-----------+
| CNT | Dept      |
+-----+-----------+
|   2 | HR        |
|   2 | IT        |
|   2 | Finance   |
|   2 | Marketing |
|   2 | Sales     |
+-----+-----------+
```

```
+-----------------+
| Name            |
+-----------------+
| John Doe        |
| Jane Smith      |
| James Brown     |
| Mary Johnson    |
| Emily Davis     |
| Michael Wilson  |
| David Taylor    |
| Sarah Moore     |
| Robert Lee      |
| Linda Harris    |
+-----------------+
```

Second one
Scenario: An e-commerce store tracks customer activity in a table named CustomerActivity:

CustomerID	CustomerName	LastLogin	TotalSpend
1	Alice	2024-11-01 12:00	1200
2	Bob	2024-11-10 15:30	800
3	Charlie	2024-11-15 09:20	1500

Questions:

Find customers who logged in after November 5, 2024.
Calculate the total spending by all customers.
Extract the day of the week from LastLogin for each customer.
Count the customers whose total spending is more than 1000.
Find the customer whose name contains the letter "a" and logged in before November 10, 2024

In [ ]:

```sql
CREATE TABLE Customers (
  CustomerID INT PRIMARY KEY,
  CustomerName VARCHAR(50),
  LastLogin DATETIME,
  TotalSpend DECIMAL(10, 2)
);

INSERT INTO Customers (CustomerID, CustomerName, LastLogin, TotalSpend)
VALUES
(1, 'Alice', '2024-11-01 12:00', 1200.00),
(2, 'Bob', '2024-11-10 15:30', 800.00),
(3, 'Charlie', '2024-11-15 09:20', 1500.00);

-- JOIN AFTER 2024 NOV 05
SELECT *
FROM Customers
WHERE DATEDIFF(LastLogin, '2024-11-05') > 0;

-- TOTAL SEPND
SELECT SUM(TotalSpend) AS TOTAL
FROM Customers;

-- DAY OF WEEK 1 - SUNDAY 2 MONDAY
SELECT DAYOFWEEK(LastLogin) AS DAY_WEEK
FROM
    Customers;

-- COUNT , SPEND > 1000
SELECT COUNT(*)
FROM
    Customers
WHERE TotalSpend > 1000;

-- CONTAIN 'A' AND BEFORE NOV 10 2024
SELECT *
FROM
    Customers
WHERE LOCATE('a', CustomerName)  AND DATEDIFF(LastLogin, '2024-11-10') < 0;

```

Output:

CustomerID	CustomerName	LastLogin	TotalSpend
2	Bob	2024-11-10 15:30:00	800.00
3	Charlie	2024-11-15 09:20:00	1500.00

```
+---------+
| TOTAL   |
+---------+
| 3500.00 |
+---------+
```

```
+----------+
| DAY_WEEK |
+----------+
|        6 |
|        1 |
|        6 |
+----------+
```

```
+----------+
| COUNT(*) |
+----------+
|        2 |
+----------+
```

```
+------------+--------------+---------------------+------------+
| CustomerID | CustomerName | LastLogin           | TotalSpend |
+------------+--------------+---------------------+------------+
|          1 | Alice        | 2024-11-01 12:00:00 |    1200.00 |
+------------+--------------+---------------------+------------+
```