1. Find the Average Sales Per Customer

Problem:

Given an `Orders` table

with columns `OrderID`, `CustomerID`, and `SaleAmount`,

calculate the average sales amount per customer.

```
| School | S
```

2. Find Employees with No Manager

Problem:

Given an `Employees` table

with columns `EmployeeID`, `Name`, and `ManagerID`

(which refers to `EmployeeID` of the manager),

find all employees who do not have a manager.

Table Structure:

. . .

CREATE TABLE Employees (

EmployeeID INT,

Name VARCHAR(100),

ManagerID INT

);

```
∨CREATE TABLE Employees(
       Id INT IDENTITY(1,1) PRIMARY KEY,
       EmployeeID INT NOT NULL,
       Name VARCHAR(20) NOT NULL,
       ManagerID INT
  ∨INSERT INTO Employees (EmployeeID, Name, ManagerID)
       VALUES(1, 'dave', 10), (2, 'david', 11), (3, 'sherin', NULL), (4, 'carel', NULL)
   SELECT * FROM Employees
  ∨SELECT EmployeeID, Name
   FROM Employees
   WHERE ManagerID IS NULL
      No issues found
    Results
                    Message
EmployeeID Name
        carel
```

3. Find the Oldest and Youngest Employees

Problem: Given an `Employees` table

with columns `EmployeeID`, `Name`, and `DateOfBirth`,

find the oldest and youngest employees.

```
CREATE TABLE Employees

Id INT IDENTITY(1,1) PRIMARY KEY,
EmployeeID INT NOT NULL,
Name VARCHAR(20) NOT NULL,
DateOfBirth DATE

VINSERT INTO Employees (EmployeeID, Name, DateOfBirth)
VALUES(1, 'dave', '2801-18-12'), (2, 'david', '2805-11-8'), (3, 'sherin', '1998-4-4'), (4, 'carel', '2008-3-7')

SELECT * FROM Employees
WHERE DateOfBirth IN ((SELECT MIN(DateOfBirth) FROM Employees), (SELECT MAX(DateOfBirth) FROM Employees))

110 % • No issues found

110 % • No issues found
```

4. Find the Most Recent Order for Each Customer

Problem: Given an `Orders` table

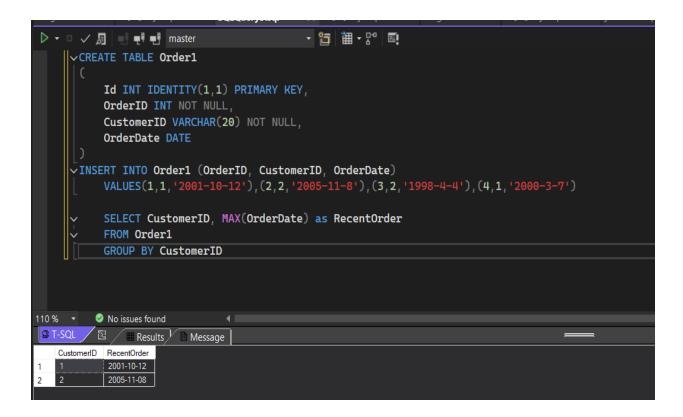
with columns `OrderID`, `CustomerID`, and `OrderDate`,

find the most recent order date for each customer.

```
Table Structure:

CREATE TABLE Orders (
OrderID INT,
CustomerID INT,
OrderDate DATE
```

);



5. Find Employees Who Report to More Than One Manager

Problem: Given an `Employees` table

with columns `EmployeeID`, `Name`, and `ManagerID`,

find employees who report to more than one manager.

```
CREATE TABLE Employee (
   id INT PRIMARY KEY IDENTITY,
   Name ManagerID INT NOT NULL,
   ManagerID INT NOT NULL UNIQUE
   )

INSERT INTO Employee (Name, ManagerID)
VALUES
   ('dave',101), ('anu',102), ('dave', 103), ('carel',104), ('Aish',105), ('carel', 106), ('carel',107);

SELECT * FROM Employee

SELECT Name, COUNT(ManagerID) as ManagerNumber
FROM Employee
GROUP BY Name
HAVING COUNT(ManagerID) >= 2
```