

Question 1

1.1 SELECT

```
ci.client_id,  
ci.client_name,  
ci.client_gender,  
ci.client_age,  
c.department,  
c.client_occupation,  
c.reporting_to  
FROM Client_Info ci  
JOIN Company c  
ON ci.client_id = c.client_id;
```

1.2 INNER JOIN

```
SELECT  
ci.*,  
c.department,  
c.client_occupation,  
c.reporting_to  
FROM Client_Info ci  
INNER JOIN Company c  
ON ci.client_id = c.client_id;
```

1.3 1

```
SELECT e.id, e.employee_name, e.department_id, m.employee_name as manager_name  
FROM Employees e  
LEFT JOIN Employees m  
ON e.manager_id = m.id;
```

2

Peter is the boss.

Question 2

2.1 SELECT

```
SUM(CASE WHEN S < 0 THEN S ELSE 0 END) AS negative_sum,  
SUM(CASE WHEN S >= 0 THEN S ELSE 0 END) AS positive_sum  
FROM Numbers;
```

Question 3

```
3.1 WITH EmployeeData AS (  
    SELECT  
        employee_name,  
        age,  
        ROW_NUMBER() OVER (ORDER BY age) AS RowNumber  
    FROM Employees  
)  
SELECT  
    Employee_name,  
    age  
FROM EmployeeData  
WHERE RowNumber = 3;
```

Question 4

```
CREATE TABLE Table_1
(
  Make VARCHAR(100),
  Model VARCHAR(100),
  Manufacture_Date Date,
  COST INT,
  Model_id INT
);
```

```
CREATE TABLE Table_2
(
  Manufacturer VARCHAR(100),
  Model_id INT,
  Parts VARCHAR(100),
  Warranty_Empiry_Date Date,
  City VARCHAR(100)
);
```

```
INSERT INTO Table1 (Make, Model, Manufacture_Date, Cost, Model_id)
VALUES
('Toyota', 'Camry', '2022-01-01', 25000, 1),
('Honda', 'Civic', '2022-02-01', 20000, 2),
('Ford', 'Mustang', '2022-03-01', 30000, 3),
('Chevrolet', 'Corvette', '2022-04-01', 40000, 4),
('Nissan', 'Altima', '2022-05-01', 22000, 5);
```

```
INSERT INTO Table2 (Manufacturer, Model_id, Parts, Warranty_Expiry_Date, City)
VALUES
('Toyota', 1, 'Brakes, Engine, Transmission', '2027-01-01', 'Tokyo'),
('Honda', 2, 'Battery, Tires, Suspension', '2026-01-01', 'Tokyo'),
('Ford', 3, 'Exhaust, Fuel System, Engine', '2025-01-01', 'Detroit'),
('Chevrolet', 4, 'Electrical, Brakes, Engine', '2024-01-01', 'Detroit'),
('Nissan', 5, 'Steering, Tires, Engine', '2023-01-01', 'Tokyo');
```

Question 5

5.1 SELECT

```
t1.Make,  
t1.Model,  
t1.Cost,  
t1.Manufacture_Date,  
t2.Parts,  
t2.Warranty_Expiry_Date  
INTO temporary_table  
FROM Table1 t1  
JOIN Table2 t2  
ON t1.Model_id = t2.Model_id;
```

5.2 SELECT Make, Model, Cost, Manufacture_Date, Parts, Warranty_Expiry_Date
INTO ##temp_1
FROM Product_Information;

Here is another query we could use:

```
IF OBJECT_ID('tempdb..##temp') IS NOT NULL  
DROP TABLE ##temp;
```

```
SELECT Make, Model, Cost, Manufacture_Date, Parts, Warranty_Expiry_Date  
INTO ##temp  
FROM Product_Information;
```

Question 6

SELECT *

FROM OPENQUERY(Vicidial, 'SELECT * FROM Users');