SQL ASSIGNMENT 3

CREATE TABLE QUERY

```
 CREATE TABLE EMPLOYEES2(
id int primary key identity(1,1),
firstName varchar(30) not null,
lastName varchar(30) not null,
department varchar(30) not null,
salary decimal(10,2) not null,
managerId int
)
```

INSERT RECORDS IN TABLE QUERY

```
INSERT INTO EMPLOYEES2
VALUES
('ANGELIKA','VOULES','MARKETING',5293.74,2),
('ROZELLE','SWYNLEY','MARKETING',8295.08,18),
('WARREN','WILEY','ENGINEERING',9126.72,19),
('LYNELLE','WHITEN','MANAGEMENT BOARD',10716.15,null),
('CONSOLATA','ROMAN','MANAGEMENT BOARD',8456.06,4),
('HOEBART','BALDOCK','RESEARCH AND DEVELOPMENT BOARD',4817.34,20)
```

```
SELECT * from EMPLOYEES2
```

	id	firstName	lastName	department	salary	managerId
1	1	ANGELIKA	VOULES	MARKETING	5293.74	2
2	2	ROZELLE	SWYNLEY	MARKETING	8295.08	18
3	3	WARREN	WILEY	ENGINEERING	9126.72	19
4	4	LYNELLE	WHITEN	MANAGEMENT BOARD	10716.15	NULL
5	5	CONSOLATA	ROMAN	MANAGEMENT BOARD	8456.06	4
6	6	HOEBART	BALDOCK	RESEARCH AND DEVELOPMENT BOARD	4817.34	20

1) ***Write a query to display the 5th highest employee salary in the employee table.***

⇒

```
SELECT *  FROM EMPLOYEES2 E1
WHERE 5= (
SELECT COUNT(DISTINCT salary)
FROM EMPLOYEES2 E2
WHERE E2.salary>=E1.salary
)
```

	id	firstName	lastName	department	salary	managerId
1	1	ANGELIKA	VOULES	MARKETING	5293.74	2

2) Write the query to get the department and department wise total(sum) salary, display it in ascending order according to salary.

⇒

```
SELECT DEPARTMENT ,SUM(SALARY) AS TOTALSALARY
FROM EMPLOYEES2
GROUP BY DEPARTMENT
ORDER BY TOTALSALARY ASC
```

	DEPARTMENT	TOTALSALARY
1	RESEARCH AND DEVELOPMENT BOARD	4817.34
2	ENGINEERING	9126.72
3	MARKETING	13588.82
4	MANAGEMENT BOARD	19172.21

3) SQL Query to find the second highest salary of an Employee.

⇒

```
SELECT *  FROM EMPLOYEES2 E1
WHERE 2= (
SELECT COUNT(DISTINCT salary)
```

```
FROM EMPLOYEES2 E2
WHERE E2.salary>=E1.salary
)
```

	id	firstName	lastName	department	salary	managerId
1	3	WARREN	WILEY	ENGINEERING	9126.72	19

4) Find the Average Salary by Department

⇒

```
SELECT DEPARTMENT ,AVG(SALARY) AS AVERAGESALARY
FROM EMPLOYEES2
GROUP BY DEPARTMENT
```

	DEPARTMENT	AVERAGESALARY
1	ENGINEERING	9126.720000
2	MANAGEMENT BOARD	9586.105000
3	MARKETING	6794.410000
4	RESEARCH AND DEVELOPMENT BOARD	4817.340000

5) Find All Employees Under a Specific Manager.

⇒

```
SELECT * FROM EMPLOYEES2
WHERE MANAGERID=18
```

	id	firstName	lastName	department	salary	managerId
1	2	ROZELLE	SWYNLEY	MARKETING	8295.08	18