Задание 3

3.1

CREATE TABLE Employee(Id int PRIMARY KEY, Name varchar(25), Salary INT, DepartmentId INT)

CREATE TABLE Departament(Id int PRIMARY KEY, Name varchar(25))

INSERT INTO Employee VALUES(1,'Joe', 70000, 1);

INSERT INTO Employee VALUES(2,'Henry', 80000, 2);

INSERT INTO Employee VALUES(3,'Sam', 60000, 2);

INSERT INTO Employee VALUES(4,'Max', 90000, 1);

INSERT INTO Departament VALUES(1,'IT');

INSERT INTO Departament VALUES(2,'Sales');

SELECT d.Name as Departament, e.Name as Employee, e.Salary as Salary

FROM Employee e

JOIN Departament d ON e.DepartmentId = d.Id

WHERE(e.DepartmentId, e.Salary) IN (SELECT DepartmentId, MAX(Salary) FROM Employee GROUP BY DepartmentId);

3.2

CREATE TABLE seat(id int, student varchar(25))

INSERT INTO seat VALUES(1,'Дарья');

INSERT INTO seat VALUES(2,'Иван');

INSERT INTO seat VALUES(3,'Светлана');

INSERT INTO seat VALUES(4,'Александр');

INSERT INTO seat VALUES(5,'Петр');

SELECT

    CASE

        WHEN id % 2 = 0 THEN id - 1

        WHEN id % 2 = 1 AND id = (SELECT MAX(id) FROM seat) THEN id

        ELSE id + 1

    END AS id,

    student FROM seat

ORDER BY id;

3.3 CREATE TABLE scores(Id int, Score varchar(25))

INSERT INTO scores (Id, Score) VALUES

(1, 3.50),

(2, 3.65),

(3, 4.00),

(4, 3.85),

(5, 4.00),

(6, 3.65);

SELECT

s.Score,

dense\_rank() OVER (ORDER BY s.Score DESC) AS Id

FROM scores s

ORDER BY s.Score DESC