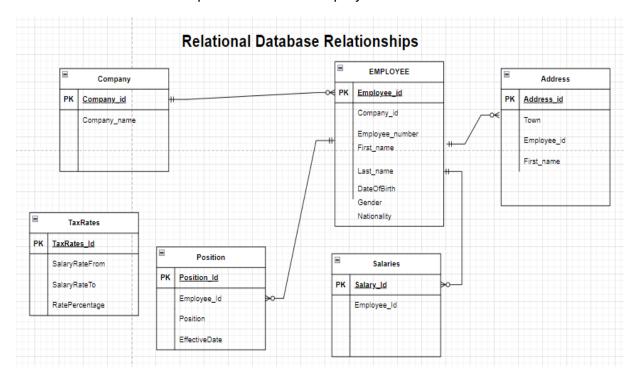
1. Please add a relationship between table Employee and table Address.



2. Please write a statement that would return the tax percentage of each employee, per company.

```
SELECT

e.employee_id,
e.First_name,
e.Last_name,
c.company_name,
t.ratepercentage

FROM employee e
INNER JOIN company c ON e.employee_id = c.company_id
INNER JOIN taxrates t ON c.company_id = t.taxrates_id;
```

3. Please write a statement to create a Temporary Table that would house an employee's full name, salary and tax percentage, and subsequently populate it with a statement.

```
CREATE TEMPORARY TABLE TEMP_EMPLOYEE(
    employee_id INT PRIMARY KEY,
    First_name VARCHAR(100),
    Last_name VARCHAR(100),
    SALARY INT,
    RatePercentage INT
);
```

4. Please write a statement that returns the employee with the highest salary, per company.

```
SELECT

e.employee_id,
e.First_name,
e.Last_name,
c.company_name,
t.salaryrateto

FROM employee e

INNER JOIN company c ON e.employee_id = c.company_id

INNER JOIN taxrates t ON c.company_id = t.taxrates_id

where t.salaryrateto in (select max(t.salaryrateto) from taxrates);
```

5. Please write a statement that returns the average salary of employees, per company.

6. Please write a statement that returns the total number of positions, grouped by company.

```
SELECT

e.employee_id,
e.FirstName,
p.position,
p.position_employee_id,
c.companyname

FROM employee e

INNER JOIN company c ON e.employee_company_ID = c.company_ID

INNER JOIN position p ON p.position_id = p.employee_id,

GROUP BY COMPANY;
```

7. Please write a statement that returns all employees that are male, with a salary of over 31000 and who are over 25 years of age.

```
We can find the age of a person from their date of birth by using this formula

SELECT DATE_FORMAT(FROM_DAYS(DATEDIFF(NOW(),'DateOfBirth')), '%Y') + 0 AS age;

SELECT

e.employee_id,
e.First_name,
e.Last_name,
e.Last_name,
e.DateOfBirth,
e.gender,
t.salaryrateto

FROM employee e

INNER JOIN taxrates t ON e.employee_id = t.taxrates_id;
WHERE gender = 'male' AND age >= 25 with salaryrateto > 31000;
```

8. Please write a statement that returns employees that have a tax rate of over 20%, per company.

```
SELECT

e.employee_id,
e.company_id,
e.First_name,
e.Last_name,
c.company_name,
t.ratepercentage

FROM employee e

INNER JOIN company c ON e.company_id = c.company_id

INNER JOIN taxrates t ON c.company_id = t.taxrates_id;

WHERE ratepercentage > 20;
```

9. Please improve, or optimise the below statement.

```
SELECT DISTINCT company_id , First_name, Last_name, Nationality
FROM employee
WHERE DateOfBirth > '1990-01-15' and Gender = 'Male' and Nationality Like '%South African%';
```