# Andmebaaside tunnitöö

1. Kasutame left joini

Päring võtab kõik read tabelist SalesLt.Customer (vasak tabel).

Kui sobiv CustomerId on olemas ka tabelis SalesLt.CustomerAddress, siis lisatakse vastavad andmed.

Kui vastet pole, jäävad SalesLt.CustomerAddress väljadel NULL väärtused.

See tähendab, et näeme kõiki kliente, isegi kui neil pole aadressi!

SELECT Title, FirstName, MiddleName, LastName, CompanyName, SalesPerson, EmailAddress, Phone

FROM SalesLt.Customer

LEFT JOIN SalesLt.CustomerAddress

ON Customer.CustomerId = SalesLt.CustomerAddress.CustomerId

ORDER BY LastName

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1. Kasutame right joini

RIGHT JOIN (Paremühendus):

Võtab kõik read tabelist SalesLt.CustomerAddress (parem tabel).

Kui sobiv CustomerId on olemas ka tabelis SalesLt.Customer, siis lisatakse vastavad kliendiandmed.

Kui vastet pole, jäävad SalesLt.Customer väljadel NULL väärtused.

See tähendab, et näeme kõiki aadresse, isegi kui neil pole vastavat klienti!

SELECT SalesLt.CustomerAddress.CustomerID, COUNT(SalesLt.Customer.CustomerID) AS TotalCustomers

FROM SalesLt.Customer

RIGHT JOIN SalesLt.CustomerAddress

ON Customer.CustomerId = SalesLt.CustomerAddress.CustomerId

GROUP BY SalesLt.CustomerAddress.CustomerID

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1. Inner joini

-- kuvab neid, kellel on SalesLt.CustomerAddress all olemas väärtus

select Title, FirstName, MiddleName, LastName, CompanyName, SalesPerson, EmailAddress, Phone

from SalesLt.Customer

inner join SalesLt.CustomerAddress

on Customer.CustomerId = SalesLt.CustomerAddress.CustomerId

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1. Outer jõin

RIGHT JOIN = Tagastab kõik tootekirjeldused ja lisab võimalikud tooted, kui need on olemas.

COUNT(ProductModel.ProductModelID) = Loendab ainult neid kirjeid, millel on vaste ProductModel tabelis (NULL väärtused jäetakse välja).

Kui tahad NULL väärtused kuvada 0-na, kasuta COALESCE().

SELECT Title, FirstName, MiddleName, LastName,

SalesLt.Customer.CustomerID, SalesLt.CustomerAddress.CustomerID

FROM SalesLt.Customer

FULL OUTER JOIN SalesLt.CustomerAddress

ON SalesLt.Customer.CustomerID = SalesLt.CustomerAddress.CustomerID

A table of names and numbers

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1. Cross jõin

--- cross join võtab kaks allpool olevat tabelit kokku ja korrutab need omavahel läbi

select Title, FirstName, MiddleName, LastName, CompanyName, SalesPerson, EmailAddress, Phone

from SalesLt.Customer

cross join SalesLt.CustomerAddress

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Tabeli koostamine:

create table Employees

(

Id int primary key,

FirstName nvarchar(50),

MiddleName nvarchar(50),

LastName nvarchar(50),

Gender nvarchar(50),

Salary nvarchar(50),

DepartmentId int,

Married nvarchar(50),

Children int,

Car nvarchar(50),

Animal nvarchar(50)

)

select \* from Employees

insert into Employees (Id, FirstName, MiddleName, LastName, Gender, Salary, DepartmentId, Married, Children, Car, Animal)

values (1, 'Tom', 'Hendrikson', 'Mada', 'Male', 4000, 1, 'Yes', 4, 'Toyota', 'Horse')

insert into Employees (Id, FirstName, MiddleName, LastName, Gender, Salary, DepartmentId, Married, Children, Car, Animal)

values (2, 'Dim', 'Dam', 'Dum', 'Female', 6000, 2, 'No', 2, 'Toyota', 'Dog')

insert into Employees (Id, FirstName, MiddleName, LastName, Gender, Salary, DepartmentId, Married, Children, Car, Animal)

values (3, 'Ah', 'Oh', 'Uh', 'Female', 5000, 3, 'No', 8, 'Honda', 'Cat')

insert into Employees (Id, FirstName, MiddleName, LastName, Gender, Salary, DepartmentId, Married, Children, Car, Animal)

values (4, 'Tom', 'Hendrikson', 'Mada', 'Male', 4000, 3, 'Yes', 4, 'Toyota', 'Horse')

insert into Employees (Id, FirstName, MiddleName, LastName, Gender, Salary, DepartmentId, Married, Children, Car, Animal)

values (5, 'Vin', 'Ni', 'Puhh', 'Male', 8000, 5, 'Yes', 7, 'Mazda', 'Pig')

insert into Employees (Id, FirstName, MiddleName, LastName, Gender, Salary, DepartmentId, Married, Children, Car, Animal)

values (6, 'Ai', 'Oi', 'Mama', 'Male', 5959, 6, 'Yes', 5, 'BMW', 'Lemur')

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