

Databases week 2

Met MySQL



Wat hebben we al gedaan

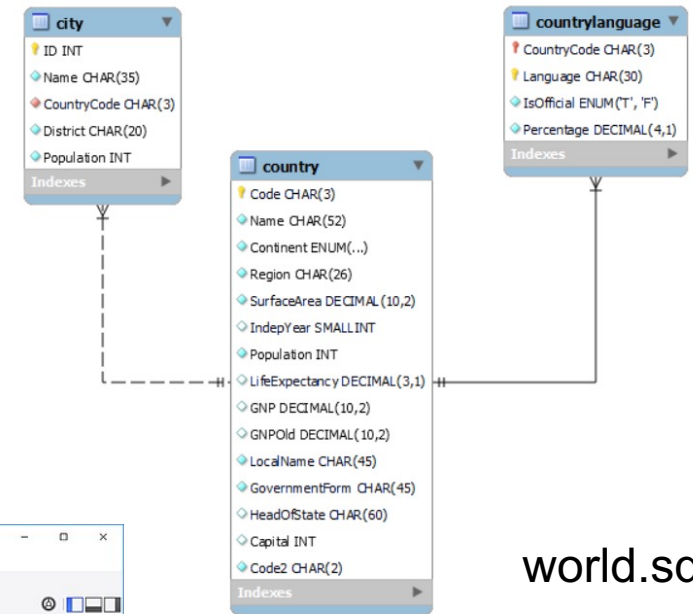
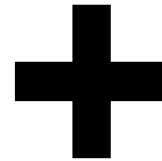
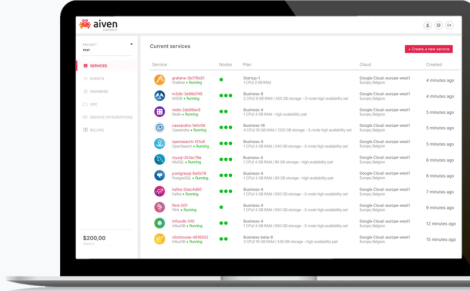
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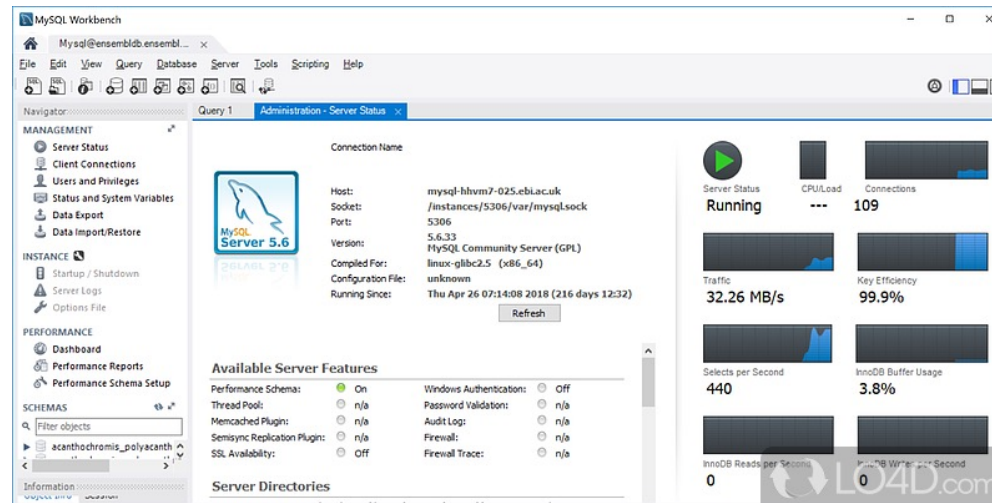
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world.sql

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MySQL Workbench

Connection Name: mysql-hhvm7-025.ebl.ac.uk

Host: mysql-hhvm7-025.ebl.ac.uk

Socket: /instances/5306/var/mysql.sock

Port: 5306

Version: 5.6.33

MySQL Community Server (GPL)

Compiled For: linux-glibc2.5 (x86_64)

Configuration File: unknown

Running Since: Thu Apr 26 07:14:08 2018 (216 days 12:32)

Available Server Features

Feature	Status	Feature	Status
Performance Schemas	On	Windows Authentication	Off
Thread Pool	n/a	Password Validation	n/a
Memcached Plugin	n/a	Audit Log	n/a
Semisync Replication Plugin	n/a	Firewall	n/a
SSL Availability	Off	Firewall Trace	n/a

Server Directories

Server Status: Running

CPU Load: ---

Connections: 109

Traffic: 32.26 MB/s

Key Efficiency: 99.9%

Selects per Second: 440

InnoDB Buffer Usage: 3.8%

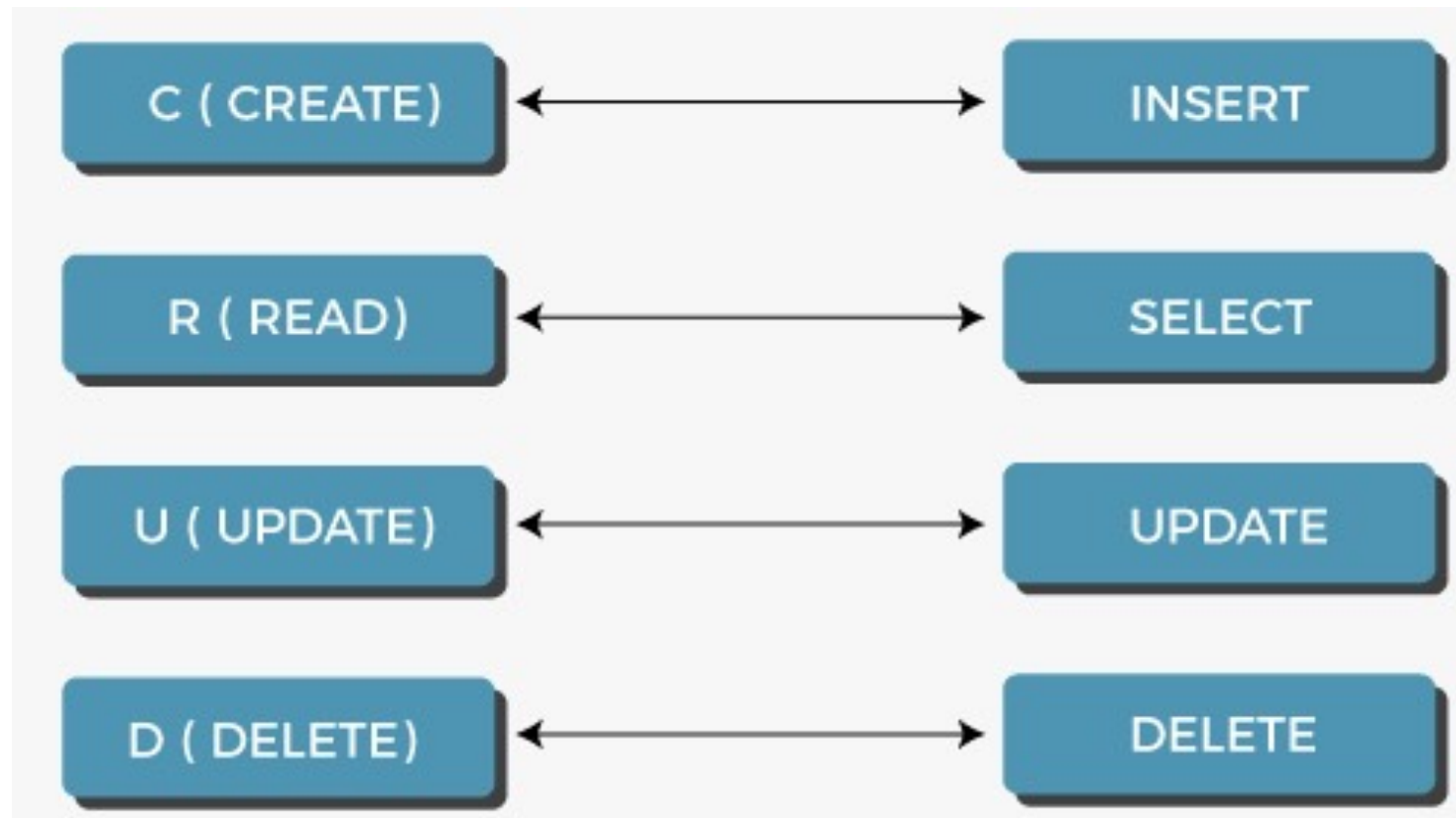
InnoDB Reads per Second: 0

InnoDB Writes per Second: 0

CRUD

ACTIE

IN SQL



OPDRACHT 1

Haal uit de database alle steden uit Spanje (CountryCode : ESP) op met meer dan 350000 inwoners (Het zijn 9 steden). Welke SQL-statement heb je hiervoor gebruikt?

```
SELECT * FROM city WHERE CountryCode = 'ESP' AND Population >= 350000
```

OPDRACHT 1

Vervang in de database het staatshoofd van Nederland van Beatrix naar Willem Alexander. Welke SQL-statement heb je hiervoor gebruikt?

UPDATE country SET HeadOfState = 'Willem Alexander' WHERE Code = 'NLD'

OPDRACHT 1

Maak een SQL-statement dat teruggeeft hoeveel inwoners alle Belgische steden in de database (CountryCode : BEL) gezamenlijk hebben? Het antwoord is 1609322.

```
SELECT sum(Population) FROM city WHERE CountryCode = 'BEL'
```

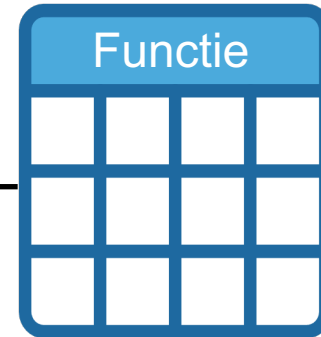
OPDRACHT 1

Maak een SQL-statement dat teruggeeft hoeveel mensen er in Argentinië (ARG) wonen en wat hun gemiddelde levensverwachting is. Het antwoord is 37.032.000 mensen en een gemiddelde levensverwachting van 75,1 jaar.

```
SELECT sum(Population), AVG(LifeExpectancy) FROM  
country WHERE Code = 'ARG'
```

JOINS

SLEUTELS



#	Voornaam	Achternaam	FunctieID
1	Adnan	Kazan	2
2	Jeroen	Koomen	1
3	Pieter	Leek	2
4	Hans	Kazan	3

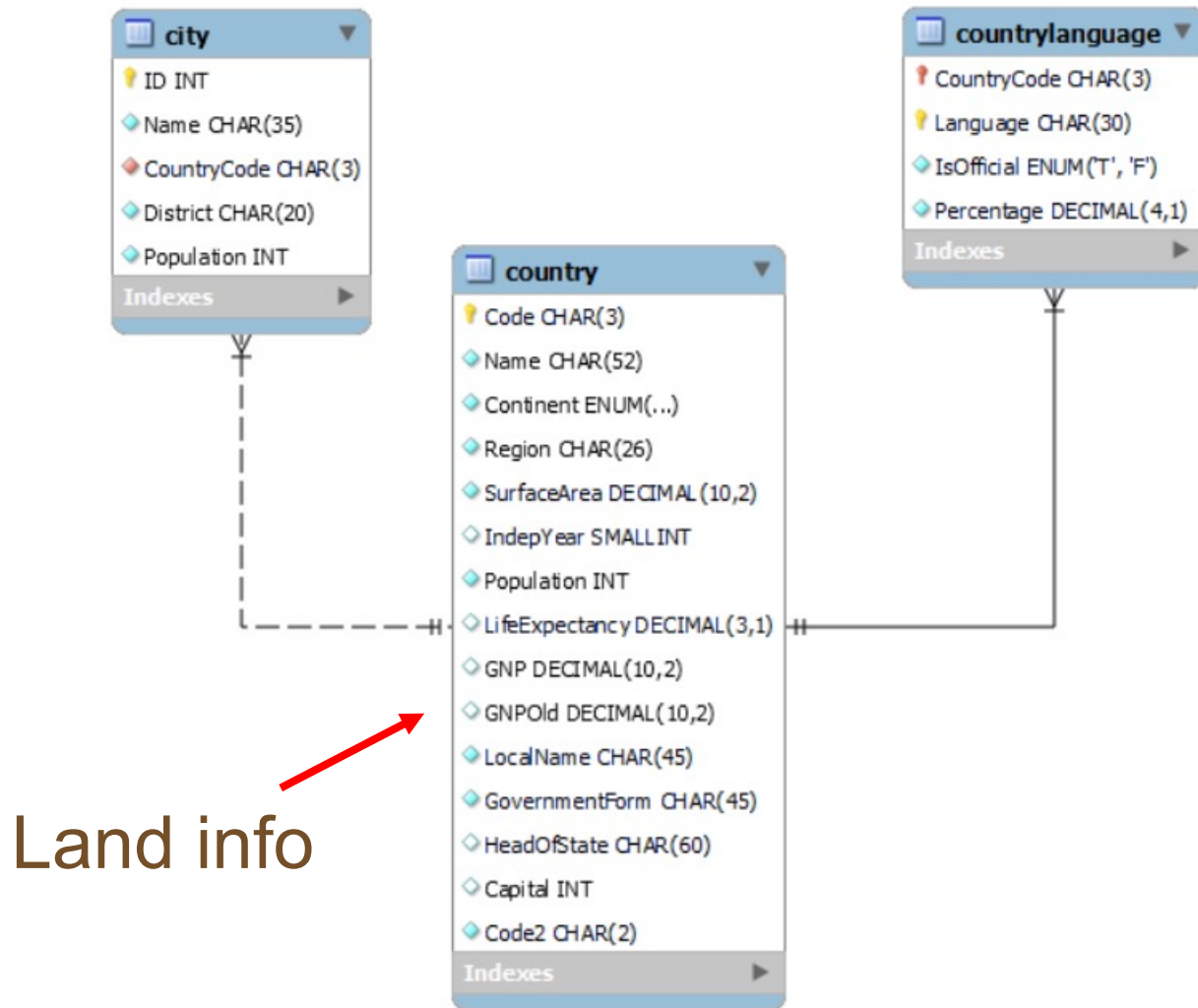
Primary key

Foreign key

FunctieID	Naam
1	Manager
2	Docent
3	Goochelaar

Primary key

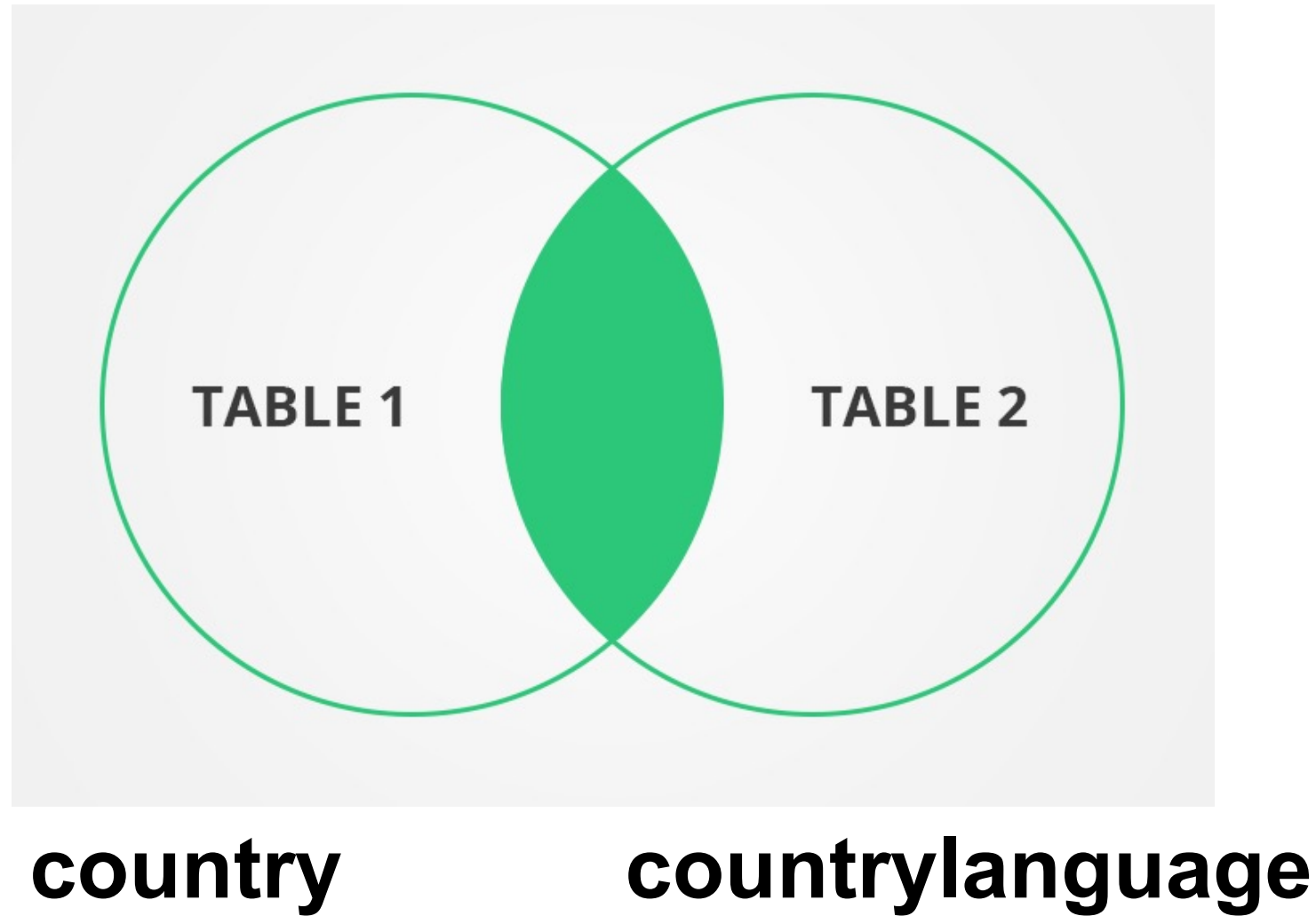
Voorbeeld



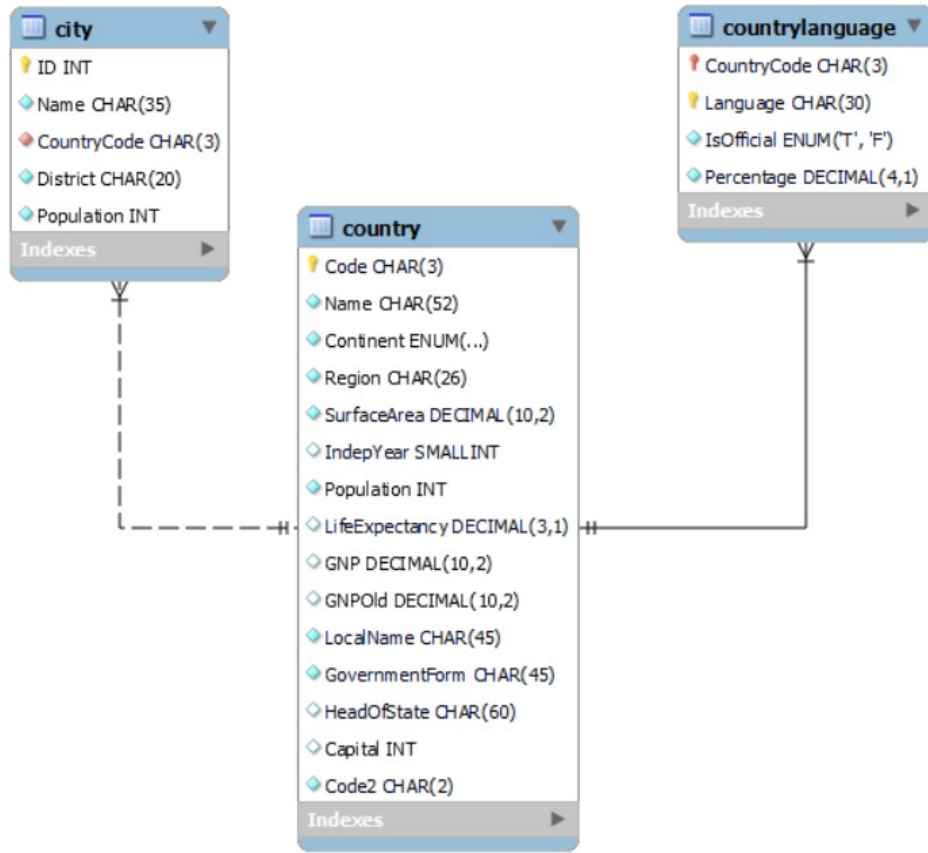
Taal

Ik wil weten van alle landen in West Europa (Western Europe) welke taal ze spreken?

INNER JOIN



INNER JOIN



SELECT

*

FROM

country

INNER JOIN

countrylanguage

ON

country.Code = countrylanguage.CountryCode

WHERE

country.Region = 'Western Europe'

INNER JOIN

TABLE 1

Products	Price
Kiwis	\$6
Onions	\$3
Tomatoes	\$7

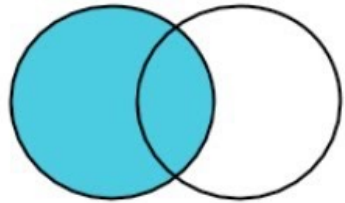
TABLE 2

Products	Quantity
Kiwis	10
Onions	6
Broccoli	5

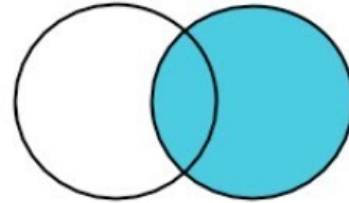
INNER JOIN

Products	Price	Quantity
Kiwis	\$6	10
Onions	\$3	6

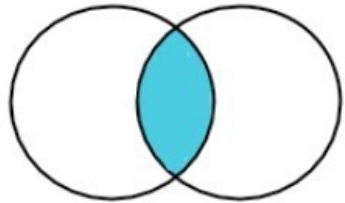
SQL Joins



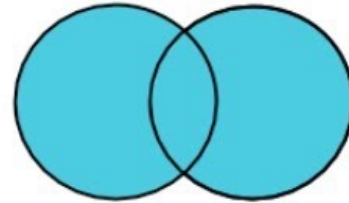
Left Join



Right Join

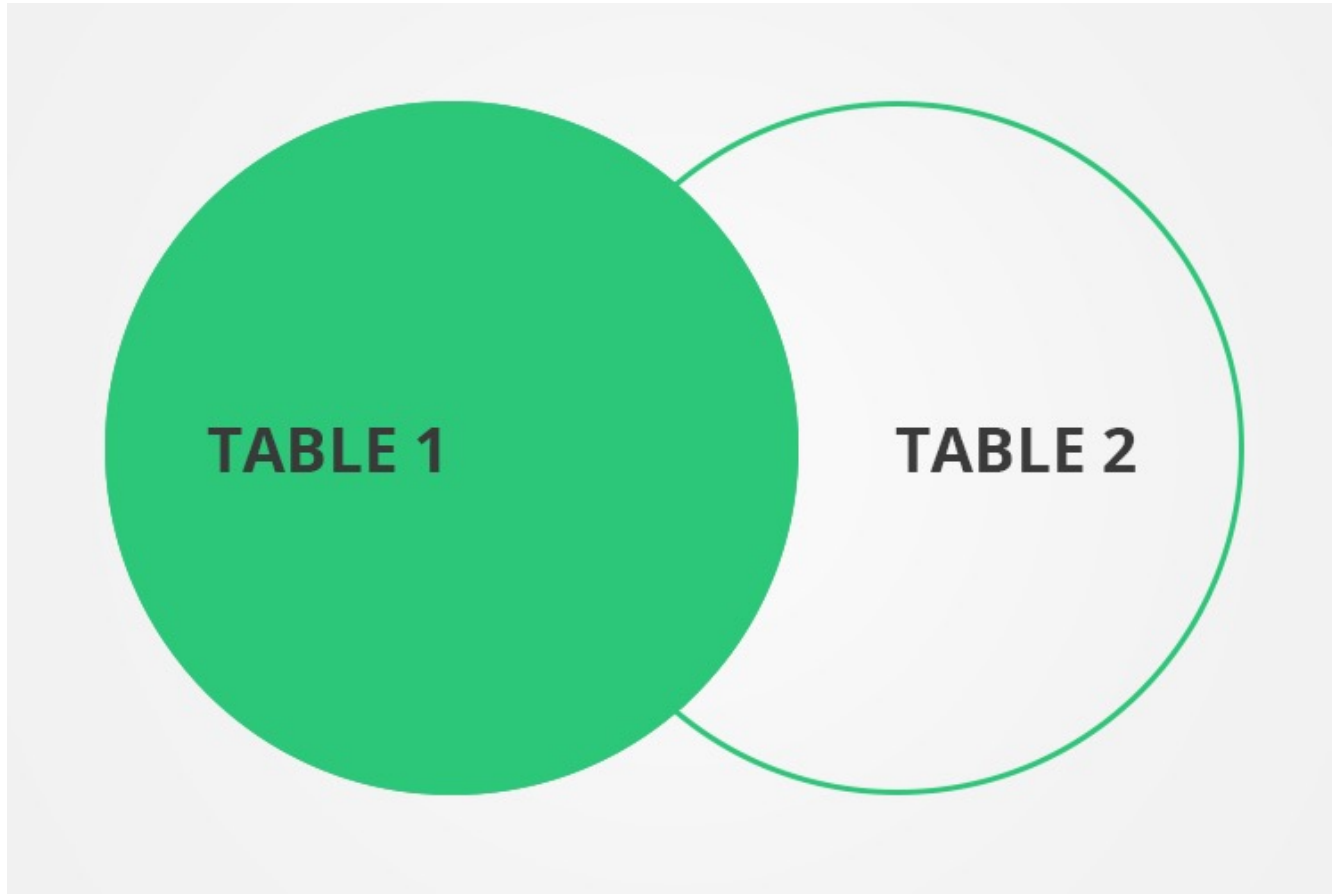


Inner Join

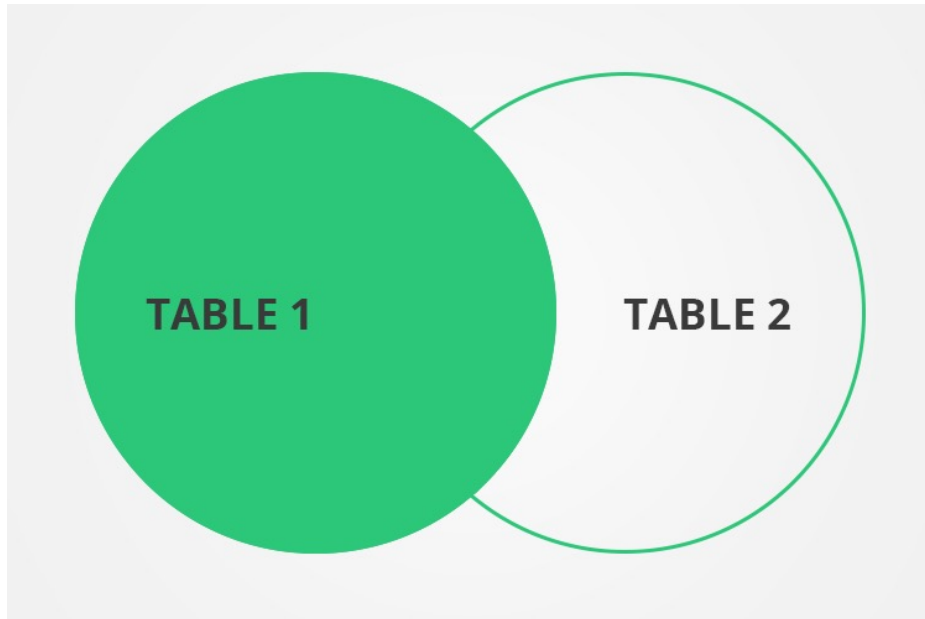


**Full Outer
Join**

LEFT JOIN



LEFT JOIN



LEFT = WELKE TABEL ER LINKS
STAAT = DE EERSTE TABELNAAM
(na FROM) IN DE QUERY

SELECT * FROM **TABLE 1** LEFT JOIN **TABLE 2** ON

Tweede tabelnaam

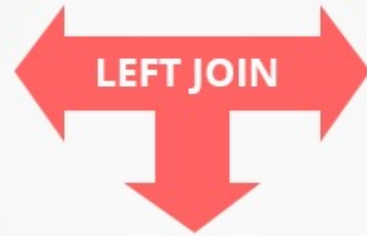
LEFT JOIN

TABLE 1

Products	Price
Kiwis	\$6
Onions	\$3
Tomatoes	\$7

TABLE 2

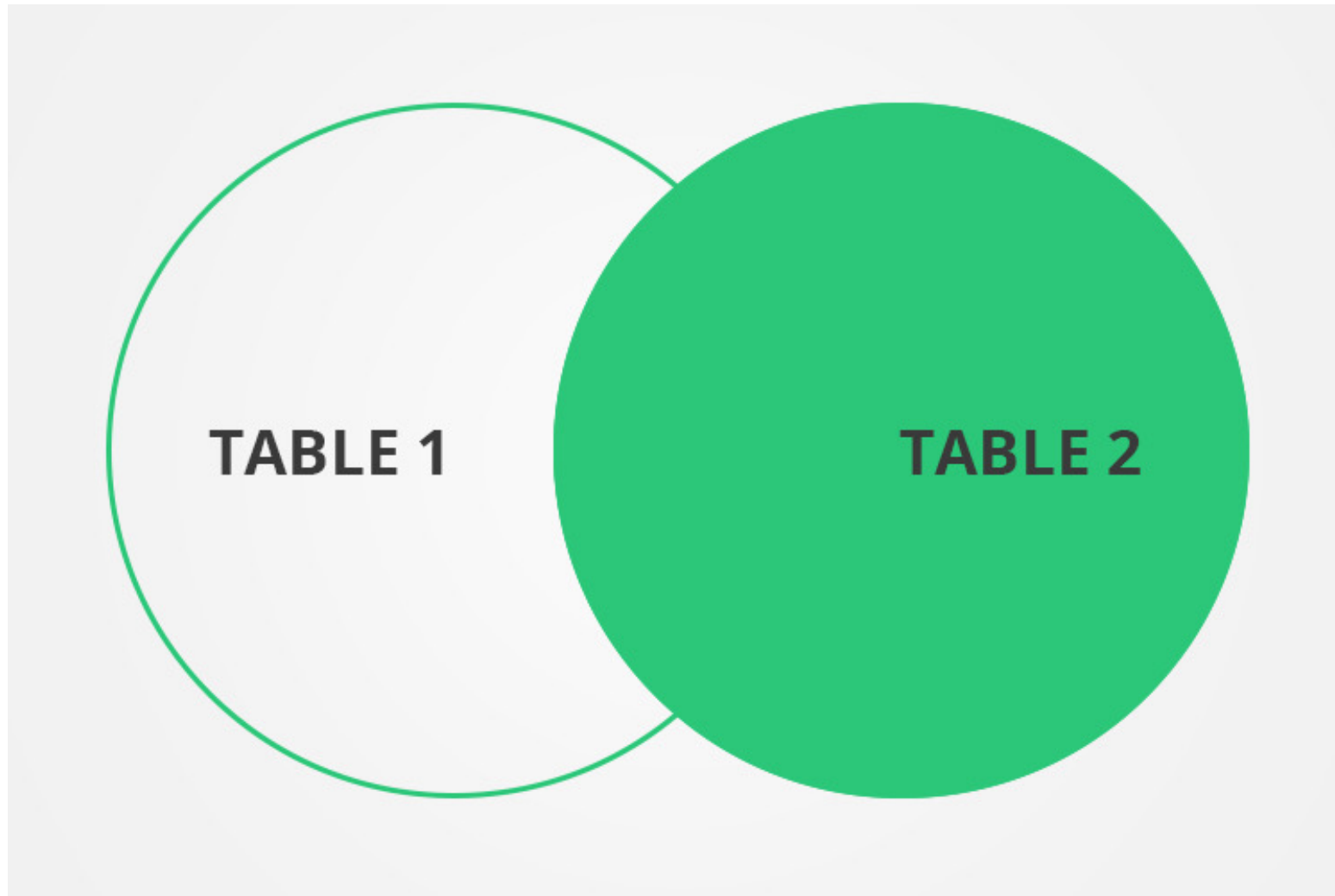
Products	Quantity
Kiwis	10
Onions	6
Broccoli	5



Products	Price	Quantity
Kiwis	\$6	10
Onions	\$3	6
Tomatoes	\$7	Null

```
SELECT Table1.*, Table2.Quantity FROM Table1 LEFT JOIN Table2 ON  
Table1.Product = Table2.Product
```

RIGHT JOIN



RIGHT JOIN

Table 1

Products	Price
Kiwis	\$6
Onions	\$3
Tomatoes	\$7

Table 2

Products	Quantity
Kiwis	10
Onions	6
Broccoli	5

RIGHT JOIN



Products	Price	Quantity
Kiwis	\$6	10
Onions	\$3	6
Broccoli	Null	5

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```
SELECT Table1.*,  
Table2.Quantity FROM  
Table1 RIGHT JOIN  
Table2 ON  
Table1.Product =  
Table2.Product
```

AAN DE SLAG

Opdracht 2 **Inleveren via Teams**