FGA KOMINFO 2022

program DATA SCIENCE

BY @ABELKRISTANTO

Learning Path

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CLASS PROGRAM 2

13/6/22

INNER & UNION

Disini kita akan mempelajari penggabungan dengan Inner dan Union

15/6/22

DATA QUALITY

Disini kita akan berfokus untuk meningkatkan kualitas data

17/6/22

RECAP

Disini kita akan mengadakan diskusi terkait pembelajaran yang dilakukan sebelumnya

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Rule KELAS

Selama kelas diharapkan memenuhi kriteria berikut ini sebelum mulai!

ACTIVE

FEEL FREE TO ASK

CALM AND LEARN

INTERMEZZO

LOCAL

1. Install Anaconda, jika sudah klik Anancoda Prompt dibuka as administrator
2. Ketikan berikut ini dihalaman prompt dengan update pip dengan:

```
python -m pip install --upgrade pip
```

4. Install jupyter notebook:

```
python -m pip install jupyter
```

5. Buka dengan mengetikan:

```
jupyter notebook
```

ONLINE

Jika kamu ingin akses secara online untuk pembelajaran python dapat melalui link dibawah ini ya!

BIT.LY/BELAJARBERSAMAKOHKRIS

DO'NT

Menjalankan praktik dalam environment DQLAB, namun sesuaikan dengan soal yang diperhadapkan.

DO

Silahkan melakukan instalisasi di dalam environment python untuk mengenal dan menggunakan sql dalam python

```
!PIP INSTALL PSYCOPG2
```

welcome to

INNER & UNION

Disini kita akan mempelajari penggabungan dengan Inner dan Union

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table of CONTENT

Disini kita akan mempelajari penggabungan dengan Inner dan Union

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Join IN SQL

Ini merupakan cara untuk melakukan kombinasi kolom yang mana menghubungkan dengan relasional kolom.

- RELATED COLUMN
- COMBINE ROWS

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key

COLUMN

	order_id	product_id	unit_price	quantity	discount
0	10248	11	14.0	12	0.0
1	10248	42	9.8	10	0.0
2	10248	72	34.8	5	0.0
3	10249	14	18.6	9	0.0
4	10249	51	42.4	40	0.0

Table:
order_details

Table:
orders

	order_id	customer_id	employee_id	order_date	required_date	shipped_date	ship_via	freight
0	10248	VINET	5	1996-07-04	1996-08-01	1996-07-16	3	32.38
1	10249	TOMSP	6	1996-07-05	1996-08-16	1996-07-10	1	11.61
2	10250	HANAR	4	1996-07-08	1996-08-05	1996-07-12	2	65.83
3	10251	VICTE	3	1996-07-08	1996-08-05	1996-07-15	1	41.34
4	10252	SUPRD	4	1996-07-09	1996-08-06	1996-07-11	2	51.30

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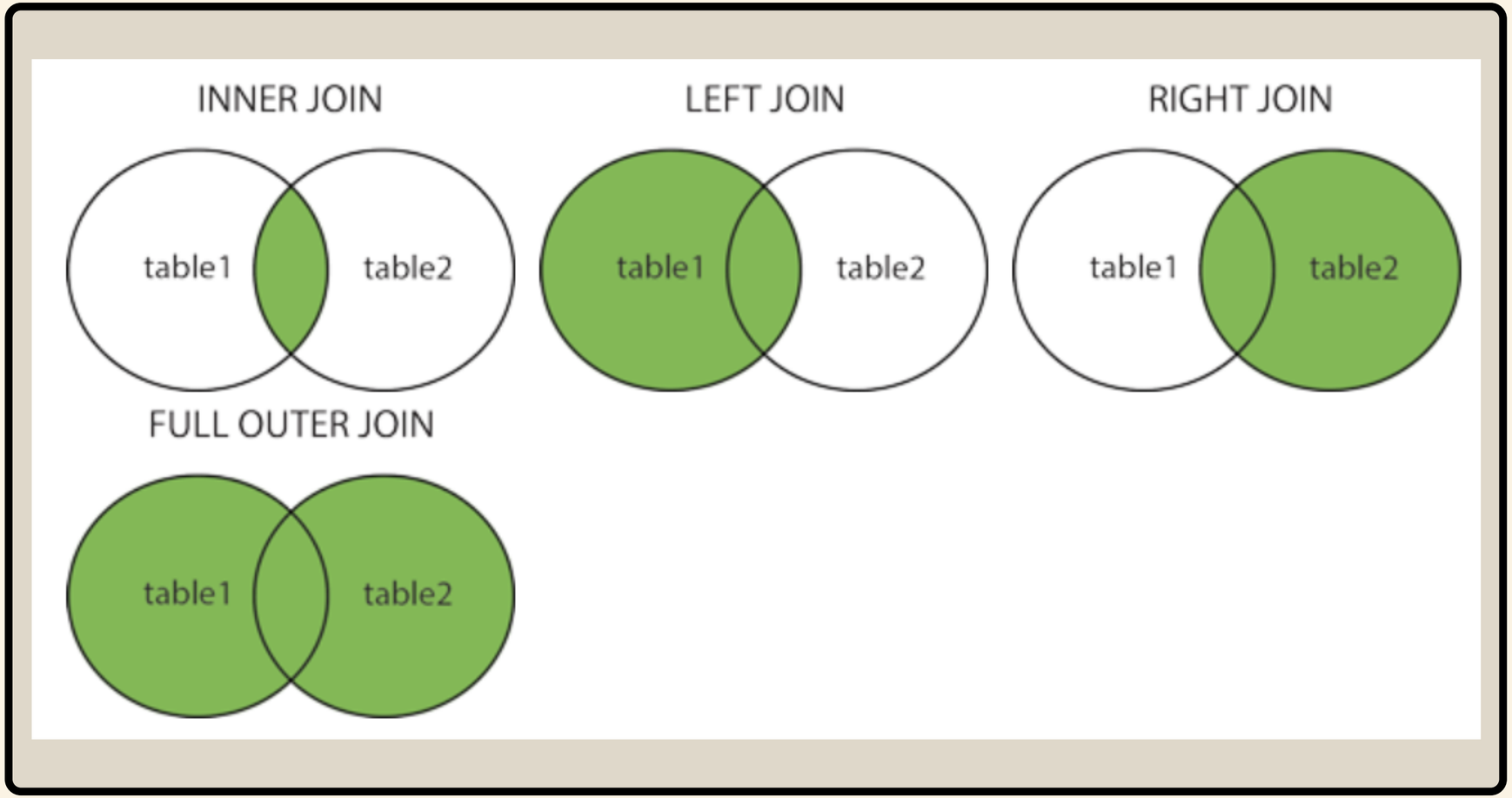

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(INNER) JOIN

Returns records that have matching values in both tables

FULL (OUTER) JOIN

Returns all records when there is a match in either left or right table

LEFT (OUTER) JOIN

Returns all records from the left table, and the matched records from the right table

RIGHT (OUTER) JOIN

Returns all records from the right table, and the matched records from the left table

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```sql
SELECT Orders.OrderID, Customers.CustomerName
FROM Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID;
```

```sql
SELECT Orders.OrderID, Customers.CustomerName, Shippers.ShipperName
FROM ((Orders
INNER JOIN Customers ON Orders.CustomerID = Customers.CustomerID)
INNER JOIN Shippers ON Orders.ShipperID = Shippers.ShipperID);
```

INNER JOIN

selects records that have matching values in both tables.

UNION JOIN

used to combine the result-set of two or more SELECT statements.

- Every SELECT statement within UNION must have the same number of columns
- The columns must also have similar data types
- The columns in every SELECT statement must also be in the same order

Distinct

```
SELECT City, Country FROM Customers
WHERE Country='Germany'
UNION
SELECT City, Country FROM Suppliers
WHERE Country='Germany'
ORDER BY City;
```

Duplicated

```
SELECT City, Country FROM Customers
WHERE Country='Germany'
UNION ALL
SELECT City, Country FROM Suppliers
WHERE Country='Germany'
ORDER BY City;
```

learning BY DOING