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LAPORAN PRAKTIKUM 2

Mata Kuliah Basis Data



Nama Dosen Pengampu

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Kelas : 1 D4 IT A

PERCOBAAN 1 :

a. JOIN

Tabel yang digunakan untuk contoh :

	a [PK] integer	fruit_a character varying (100)
1	1	apple
2	2	orange
3	3	banana
4	4	cucumber

	b [PK] integer	fruit_b character varying (100)
1	1	orange
2	2	apple
3	3	watermelon
4	4	pear

- INNER JOIN

Inner Join dari tabel basket_a dan tabel basket_b berarti mengkombinasikan data dari tabel basket_a yang matching dengan data dari tabel basket_b

Query

Query History

1

select a, fruit_a, b, fruit_b

2

from basket_a

3

inner join basket_b

4

on fruit_a = fruit_b;

Data Output

Messages

Notifications

	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1	1	apple	2	apple
2	2	orange	1	orange

- LEFT/RIGHT JOIN

Left atau right JOIN mengambil bagian semua yang ada di salah satu tabel yang tidak dimiliki oleh tabel lainnya

Query

Query History

1

select a, fruit_a, b, fruit_b

2

from basket_a

3

left join basket_b

4

on fruit_a = fruit_b;

Data Output

Messages

Notifications

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	a integer	fruit_a character varying (100)	b integer	fruit_b character varying (100)
1	1	apple	2	apple
2	2	orange	1	orange
3	3	banana	[null]	[null]
4	4	cucumber	[null]	[null]

- SELF JOIN

Menampilkan data karyawan (employee) beserta manager dari karyawan tersebut

Query

Query History

1

SELECT P.first_name, P.last_name, M.first_name, M.last_name

2

FROM employee P

3

inner JOIN employee M

4

ON P.manager_id=M.employee_id;

Data Output

Messages

Notifications

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	first_name character varying (255)	last_name character varying (255)	first_name character varying (255)	last_name character varying (255)
1	Ava	Christensen	Windy	Hays
2	Hassan	Conner	Windy	Hays
3	Anna	Reeves	Ava	Christensen
4	Sau	Norman	Ava	Christensen
5	Kelsie	Hays	Hassan	Conner
6	Tory	Goff	Hassan	Conner
7	Salley	Lester	Hassan	Conner

- FULL OUTER JOIN

Tampilkan nama karyawan dan nama departemen (termasuk karyawan dan nama departemen dan departemen yang tidak punya karyawan)

Query

Query History

```
1 SELECT employee_name, department_name
2 FROM employees e
3 FULL OUTER JOIN departments d
4 ON d.department_id = e.department_id;
5
```

Data Output

Messages

Notifications

	employee_name character varying (255)	department_name character varying (255)
1	Bette Nicholson	Sales
2	Christian Gable	Sales
3	Joe Swank	Marketing
4	Fred Costner	HR
5	Sandra Kilmer	IT
6	Julia McQueen	[null]
7	[null]	Production

- CROSS JOIN

Cross join mengkombinasikan semua data dari dua tabel

Query

Query History

1

SELECT * FROM T1 CROSS JOIN T2;

Data Output

Messages

Notifications

label
character

score
integer

1

A

1

2

B

1

3

A

2

4

B

2

5

A

3

6

B

3

- NATURAL JOIN

Query

Query History

1

SELECT * FROM products

2

NATURAL JOIN categories;

Data Output

Messages

Notifications

	category_id integer	product_id integer	product_name character varying (255)	category_name character varying (255)
1	1	1	iPhone	Smart Phone
2	1	2	Samsung Galaxy	Smart Phone
3	2	3	HP Elite	Laptop
4	2	4	Lenovo Thinkpad	Laptop
5	3	5	iPad	Tablet
6	3	6	Kindle Fire	Tablet

Contoh soal :

Buat perintah JOIN pada skema dvdrental, sehingga muncul data seperti pada gambar berikut :

Query

Query History

```
1 SELECT f.film_id, f.title, fc.category_id, c.name
2 FROM FILM f
3 inner join FILM_CATEGORY fc on f.film_id=fc.film_id
4 inner join CATEGORY c on FC.category_id=C.category_id
5 ORDER BY FILM_ID;
```

Data Output

Messages

Notifications

	film_id integer	title character varying (255)	category_id smallint	name character varying (25)
1	1	Academy Dinosaur	6	Documentary
2	2	Ace Goldfinger	11	Horror
3	3	Adaptation Holes	6	Documentary
4	4	Affair Prejudice	11	Horror
5	5	African Egg	8	Family
6	6	Agent Truman	9	Foreign
7	7	Airplane Sierra	5	Comedy
8	8	Airport Pollock	11	Horror
9	9	Alabama Devil	11	Horror
10	10	Aladdin Calendar	15	Sports
11	11	Alamo Videotape	9	Foreign
12	12	Alaska Phantom	12	Music
13	13	Ali Forever	11	Horror
14	14	Alice Fantasia	4	Classics
15	15	Alien Center	9	Foreign
16	16	Alley Evolution	9	Foreign

Total rows: 1000 of 1000

Query complete 00:00:00.114

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