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Basis Data Lanjut

Praktikum 4

1. Tampilkan `first_name`, `last_name`, dan `department_name` untuk semua karyawan termasuk karyawan yang tidak ditetapkan ke dalam department.

```
→ SELECT first_name "First Name", last_name "Last Name",  
    department_name "Department Name"  
FROM employees emp LEFT OUTER JOIN departments dpt  
ON emp.department_id = dpt.department_id;
```

Result :

First Name	Last Name	Department Name
Jennifer	Whalen	Administration
Pat	Fay	Marketing
Michael	Hartstein	Marketing
Peter	Vargas	Shipping
Randall	Matos	Shipping
Curtis	Davies	Shipping
Trenna	Rajs	Shipping
Kevin	Mourgos	Shipping
Diana	Lorentz	IT
Bruce	Ernst	IT
Alexander	Hunold	IT
Jonathon	Taylor	Sales
Ellen	Abel	Sales
Eleni	Zlotkey	Sales
Lex	De Haan	Executive
Neena	Kochhar	Executive
Steven	King	Executive
William	Gietz	Accounting
Shelley	Higgins	Accounting
Kimberely	Grant	-

2. Tampilkan `first_name`, `last_name`, dan `department_name` untuk semua karyawan termasuk department yang tidak memiliki satupun karyawan yang ditetapkan kedalamnya.

→ `SELECT first_name "First Name", last_name "Last Name",  
department_name "Department Name"  
FROM employees emp RIGHT OUTER JOIN departments dpt  
ON emp.department_id = dpt.department_id;`

Result :

First Name	Last Name	Department Name
Jennifer	Whalen	Administration
Michael	Hartstein	Marketing
Pat	Fay	Marketing
Curtis	Davies	Shipping
Peter	Vargas	Shipping
Trenna	Rajs	Shipping
Kevin	Mourgos	Shipping
Randall	Matos	Shipping
Alexander	Hunold	IT
Bruce	Ernst	IT
Diana	Lorentz	IT
Jonathon	Taylor	Sales
Eleni	Zlotkey	Sales
Ellen	Abel	Sales
Lex	De Haan	Executive
Steven	King	Executive
Neena	Kochhar	Executive
Shelley	Higgins	Accounting
William	Gietz	Accounting
-	-	Contracting

3. Tampilkan first\_name, last\_name, dan department\_name untuk semua karyawan termasuk department yang tidak memiliki karyawan yang ditetapkan dan karyawan yang tidak memiliki department yang ditetapkan.

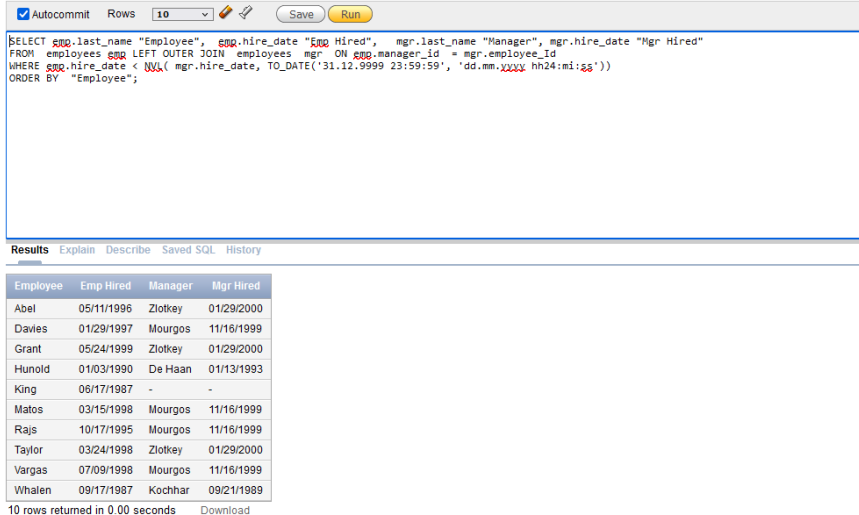
→ `SELECT first_name "First Name", last_name "Last Name",  
department_name "Department Name"  
FROM employees emp FULL OUTER JOIN departments dpt  
ON emp.department_id = dpt.department_id;`

Result :

First Name	Last Name	Department Name
Steven	King	Executive
Neena	Kochhar	Executive
Lex	De Haan	Executive
Jennifer	Whalen	Administration
Shelley	Higgins	Accounting
William	Gietz	Accounting
Eleni	Zlotkey	Sales
Ellen	Abel	Sales
Jonathon	Taylor	Sales
Kimberely	Grant	-
Kevin	Mourgos	Shipping
Trenna	Rajs	Shipping
Curtis	Davies	Shipping
Randall	Matos	Shipping
Peter	Vargas	Shipping
Alexander	Hunold	IT
Bruce	Ernst	IT
Diana	Lorentz	IT
Michael	Hartstein	Marketing
Pat	Fay	Marketing
-	-	Contracting

4. Tampilkan nama dan tanggal masuk dari semua karyawan yang diterima sebelum manajer mereka dengan nama manajer mereka. Beri label pada masing– masing kolom Employee, Emp Hired, Manager, dan Mgr Hired.

→



```

SELECT emp.last_name "Employee", emp.hire_date "Emp Hired", mgr.last_name "Manager", mgr.hire_date "Mgr Hired"
FROM employees emp LEFT OUTER JOIN employees mgr ON emp.manager_id = mgr.employee_id
WHERE emp.hire_date <= (mgr.hire_date, TO_DATE('31.12.9999 23:59:59', 'dd.mm.yyyy hh24:mi:ss'))
ORDER BY "Employee";

```

Employee	Emp Hired	Manager	Mgr Hired
Abel	05/11/1996	Zlotkey	01/29/2000
Davies	01/29/1997	Mourgos	11/16/1999
Grant	05/24/1999	Zlotkey	01/29/2000
Hunold	01/03/1990	De Haan	01/13/1993
King	06/17/1987	-	-
Matos	03/15/1998	Mourgos	11/16/1999
Rajs	10/17/1995	Mourgos	11/16/1999
Taylor	03/24/1998	Zlotkey	01/29/2000
Vargas	07/09/1998	Mourgos	11/16/1999
Whalen	09/17/1987	Kochhar	09/21/1989

10 rows returned in 0.00 seconds [Download](#)

5. Tampilkan laporan yang menunjukkam Hierarki untuk departemen Lex De Haans. Cantumkan last name, salary, dan department id dalam laporan.

→ `SELECT last_name, salary, department_id`

```

FROM employees
START WITH first_name = 'Lex'
AND last_name = 'De Haan'
CONNECT BY PRIOR employee_id = manager_id;

```

Result :

LAST_NAME	SALARY	DEPARTMENT_ID
De Haan	17000	90
Hunold	9000	60
Ernst	6000	60
Lorentz	4200	60

6. Tuliskan kueri untuk menampilkan title, type, description, dan artist dari database DJs on Demand.

```

→ SELECT title, type_code, description
FROM d_songs, d_types
WHERE type_code = d_types.code
ORDER BY title;

```

Result :

TITLE	TYPE_CODE	DESCRIPTION
All These Years	88	Country
Hurrah for Today	77	New Age
Im Going to Miss My Teacher	12	Pop
Its Finally Over	12	Pop
Lets Celebrate	77	New Age
Meet Me At the Altar	1	Jazz

7. Tulis ulang kueri dari pertanyaan nomor 6, lalu pilih hanya judul dengan ID 47 atau 48.

```

→ SELECT title, type_code, description
FROM d_songs, d_types
WHERE type_code = d_types.code
AND d_songs.id IN (47,48)
ORDER BY title;

```

Result :

TITLE	TYPE_CODE	DESCRIPTION
Hurrah for Today	77	New Age
Meet Me At the Altar	1	Jazz

8. Tulis ulang pernyataan nonequijoin berikut yang menggunakan operator kondisi

Logika (AND, OR, NOT):

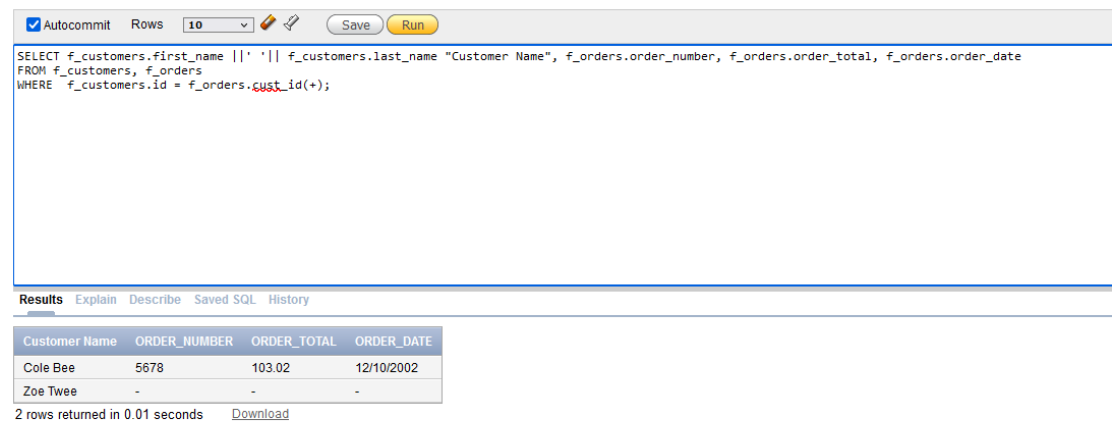
WHERE a.ranking BETWEEN g.lowest\_rank AND g.highest\_rank

→ WHERE a.ranking >= g.lowest\_rank

AND a.ranking <= g.highest\_rank

9. Tampilkan laporan untuk Global Fast Foods yang menunjukkan pelanggan dan pesannya. Termasuk pelanggan yang tidak memiliki pesannya.

→



```
SELECT f_customers.first_name || ' ' || f_customers.last_name "Customer Name", f_orders.order_number, f_orders.order_total, f_orders.order_date
FROM f_customers, f_orders
WHERE f_customers.id = f_orders.cust_id(+);
```

Customer Name	ORDER_NUMBER	ORDER_TOTAL	ORDER_DATE
Cole Bee	5678	103.02	12/10/2002
Zoe Twee	-	-	-

2 rows returned in 0.01 seconds [Download](#)