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Peraturan :

1. Quiz dikerjakan pada saat jadwal praktikum SDB II Kelas masing - masing
2. Waktu Pengerjaan adalah 2 Jam (10.45 - 12.45)
3. Pengumpulan lewat Google Classroom
4. Deadline pengumpulan jam 12.45
5. Kerjakan masing - masing secara jujur
6. Jawaban berupa query dan screenshot hasil
7. Dikerjakan menggunakan HR Datasets di Oracle Apex
8. Format nama file : NPM\_Kuis1.pdf

SOAL :

1. Jelaskan apa yang kamu ketahui tentang SELECT, JOIN, dan GROUP BY.

Jawaban:

- **SELECT:** Query untuk memilih data (record) dari suatu tabel dalam database yang ingin ditampilkan.
- **JOIN:** Query untuk menggabungkan data (record) dari 1 atau lebih tabel dalam database.
- **GROUP BY:** Query untuk mengelompokkan data (record) yang memiliki nilai yang sama.

2. Jelaskan perbedaan dari NATURAL JOIN, CROSS JOIN, dan FULL OUTER JOIN.

Jawaban:

- **NATURAL JOIN:** Query JOIN yang tidak akan memunculkan 2 kolom tabel yang sama.
- **CROSS JOIN:** Query JOIN yang bisa menggabungkan 1 atau lebih tabel baik dengan syarat maupun tidak.
- **FULL OUTER JOIN:** Query JOIN yang memilih semua data yang ada dalam kedua tabel yang memenuhi syarat.

3. Buatlah query untuk menampilkan kode pos pelanggan dan ada berapa pelanggan yang mempunyai kode pos yang sama.

Query:

```
SELECT POSTAL_CODE, COUNT(*)  
FROM OEHR_CUSTOMERS  
GROUP BY POSTAL_CODE;
```

Screenshot:

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SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```

1 SELECT POSTAL_CODE, COUNT(*)
2 FROM OEHR_CUSTOMERS
3 GROUP BY POSTAL_CODE;

```

Results Explain Describe Saved SQL History

POSTAL_CODE	COUNT(*)
40254	1
48204	1
49503	1
48109	1
52002	1
51503	2
15226	1
81999	1
56177	1
56198	2

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4. Buatlah query untuk menampilkan 3 digit pertama nomor telepon karyawan dan rata-rata gaji dikelompokkan dari nomor telepon tersebut.

Query:

```

SELECT FIRST_THREE, AVG(SALARY) AS "RATA_RATA"
FROM (SELECT SUBSTR(PHONE_NUMBER, 1, 3) AS "FIRST_THREE", SALARY
FROM OEHR_EMPLOYEES)
GROUP BY FIRST_THREE;

```

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SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```

1 SELECT FIRST_THREE, AVG(SALARY) AS "RATA_RATA"
2 FROM (SELECT SUBSTR(PHONE_NUMBER, 1, 3) AS "FIRST_THREE", SALARY FROM OEHR_EMPLOYEES)
3 GROUP BY FIRST_THREE;

```

Results Explain Describe Saved SQL History

FIRST_THREE	RATA_RATA
515	8985.71428571428571428571428571429
650	5475.55555555555555555555555555556
603	6000
590	5760
011	8900

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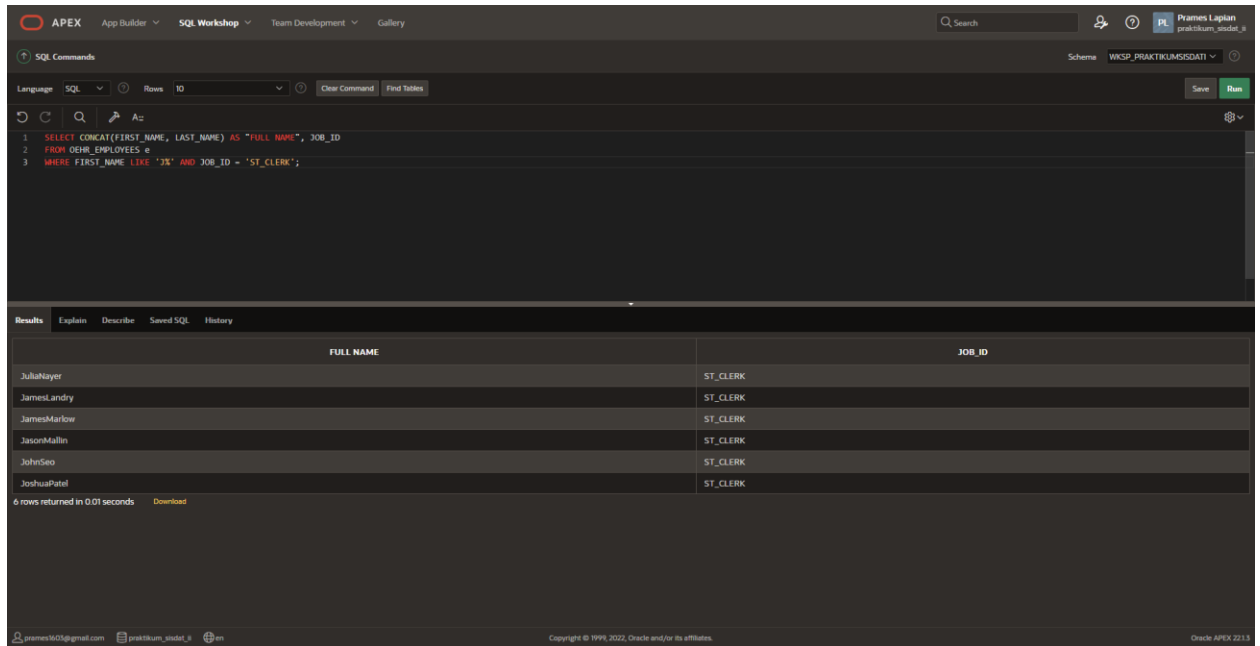
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5. Buatlah query untuk menampilkan nama lengkap karyawan yang memiliki huruf depan J dan bekerja sebagai ST\_CLERK.

Query:

```
SELECT CONCAT(FIRST_NAME, LAST_NAME) AS "FULL NAME", JOB_ID  
FROM OEHR_EMPLOYEES e  
WHERE FIRST_NAME LIKE 'J%' AND JOB_ID = 'ST_CLERK';
```

Screenshot:



The screenshot shows the Oracle APEX SQL Workshop interface. The SQL command window contains the following query:

```
1 SELECT CONCAT(FIRST_NAME, LAST_NAME) AS "FULL NAME", JOB_ID  
2 FROM OEHR_EMPLOYEES e  
3 WHERE FIRST_NAME LIKE 'J%' AND JOB_ID = 'ST_CLERK';
```

The Results tab displays the following data:

FULL NAME	JOB_ID
Jullahayer	ST_CLERK
JamesLandry	ST_CLERK
JamesMarlow	ST_CLERK
JasonMallen	ST_CLERK
JohnSaw	ST_CLERK
JoshuaPatel	ST_CLERK

6 rows returned in 0.01 seconds

6. Buatlah query untuk menampilkan Nama Lengkap karyawan yang departemennya berlokasi di kota berawalan huruf “S”

Query:

```
SELECT CONCAT(CONCAT(e.FIRST_NAME, ' '), e.LAST_NAME) AS "FULL_NAME",  
I.CITY  
FROM OEHR_EMPLOYEES e  
LEFT JOIN OEHR_DEPARTMENTS d  
ON e.DEPARTMENT_ID = d.DEPARTMENT_ID  
LEFT JOIN OEHR_LOCATIONS I  
ON d.LOCATION_ID = I.LOCATION_ID  
WHERE I.CITY LIKE 'S%';
```

Screenshot:

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SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```

1 SELECT CONCAT(CONCAT(e.FIRST_NAME, ' '), e.LAST_NAME) AS "FULL_NAME", l.CITY
2 FROM OEHR_EMPLOYEES e
3 LEFT JOIN OEHR_DEPARTMENTS d
4 ON e.DEPARTMENT_ID = d.DEPARTMENT_ID
5 LEFT JOIN OEHR_LOCATIONS l
6 ON d.LOCATION_ID = l.LOCATION_ID
7 WHERE l.CITY LIKE 'SE';

```

Results Explain Describe Saved SQL History

FULL_NAME	CITY
Mozhe Atkinson	South San Francisco
David Austin	Southlake
Shelli Baida	Seattle
Sarah Bell	South San Francisco
Laura Bissot	South San Francisco
Alexis Bull	South San Francisco
Anthony Cabrio	South San Francisco
John Chen	Seattle
Kelly Chung	South San Francisco
Karen Colmenares	Seattle

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7. Tampilkan id karyawan,nama lengkap karyawan, manajer id sebanyak 3 data dan manajer id = 108.

Query:

```

SELECT EMPLOYEE_ID, CONCAT(CONCAT(FIRST_NAME, ' '), LAST_NAME) AS
"FULL_NAME", MANAGER_ID
FROM OEHR_EMPLOYEES
WHERE ROWNUM <= 3 AND MANAGER_ID = '108';

```

Screenshot:

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SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```

1 SELECT EMPLOYEE_ID, CONCAT(CONCAT(FIRST_NAME, ' '), LAST_NAME) AS "FULL_NAME", MANAGER_ID
2 FROM OEHR_EMPLOYEES
3 WHERE ROWNUM <= 3 AND MANAGER_ID = '108';

```

Results Explain Describe Saved SQL History

EMPLOYEE_ID	FULL_NAME	MANAGER_ID
109	Daniel Fariet	108
110	John Chen	108
111	Ismail Sciarra	108

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8. Buatlah query untuk menampilkan id negara, nama negara dan id region diurutkan berdasarkan nama negara.

Query:

```
SELECT COUNTRY_ID, COUNTRY_NAME, REGION_ID
FROM OEHR_COUNTRIES
ORDER BY COUNTRY_NAME;
```

Screenshot:

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. The 'SQL Commands' tab is active, displaying a query: 

```
1 SELECT COUNTRY_ID, COUNTRY_NAME, REGION_ID
2 FROM OEHR_COUNTRIES
3 ORDER BY COUNTRY_NAME;
```

 The 'Results' tab is selected, showing a table with 7 columns: Owner, Name, Description, SQL, Updated By, and Updated. The table contains 8 rows of data, including queries from 'PRAMES1603@GMAIL.COM' and 'Tugan2.2'.

Owner	Name	Description	SQL	Updated By	Updated
PRAMES1603@GMAIL.COM	Query_8	-	SELECT COUNTRY_ID, COUNTRY_NAME, REGION_ID FROM OEHR_COUNTRIES ORDER BY COUNTRY_NAME;	PRAMES1603@GMAIL.COM	1 seconds ago
PRAMES1603@GMAIL.COM	Query_6	-	SELECT CONCAT(CONCAT(e1.FIRST_NAME, ' '), e1.LAST_NAME) AS "FULL_NAME", LCITY FROM OEHR_EMPLOYEES e1 LEFT JOIN OEHR_DEPTA	PRAMES1603@GMAIL.COM	3 minutes ago
PRAMES1603@GMAIL.COM	Query_7	-	SELECT EMPLOYEE_ID, CONCAT(CONCAT(FIRST_NAME, ' '), LAST_NAME) AS "FULL_NAME", MANAGER_ID FROM OEHR_EMPLOYEES WHERE RO	PRAMES1603@GMAIL.COM	8 minutes ago
PRAMES1603@GMAIL.COM	Query_5	-	SELECT CONCAT(FIRST_NAME, LAST_NAME) AS "FULL_NAME", JOB_ID FROM OEHR_EMPLOYEES e WHERE FIRST_NAME LIKE 'J%' AND JOB_I	PRAMES1603@GMAIL.COM	38 minutes ago
PRAMES1603@GMAIL.COM	Query_1	-	SELECT OEHR_CUSTOMERS.POSTAL_CODE, OEHR_CUSTOMERS.CUST_FIRST_NAME FROM OEHR_CUSTOMERS WHERE OEHR_CUSTOMERS.POSTAL_C	PRAMES1603@GMAIL.COM	59 minutes ago
PRAMES1603@GMAIL.COM	Tugan2.3	Hitung jumlah karyawan berdasarkan job_id	SELECT JOB_ID, COUNT(*) FROM OEHR_EMPLOYEES GROUP BY JOB_ID;	PRAMES1603@GMAIL.COM	3 days ago
PRAMES1603@GMAIL.COM	Tugan2.2	Cari karyawan/employee yang tidak memiliki manager menggunakan metode outer join.	SELECT OEHR_EMPLOYEES.EMPLOYEE_ID, OEHR_EMPLOYEES.FIRST_NAME, OEHR_EMPLOYEES.DEPARTMENT_ID, OEHR_EMPLOYEES.MANAGER_ID AS	PRAMES1603@GMAIL.COM	3 days ago

9. Buatlah Query untuk menampilkan manager dari masing - masing karyawan beserta ID manager.

Query:

```
SELECT CONCAT(CONCAT(e1.FIRST_NAME, ' '), e1.LAST_NAME) AS "MANAGER",
CONCAT(CONCAT(e2.FIRST_NAME, ' '), e2.LAST_NAME) AS "WORKER"
FROM OEHR_EMPLOYEES e1, OEHR_EMPLOYEES e2
WHERE e1.EMPLOYEE_ID = e2.MANAGER_ID;
```

Screenshot:

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SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```
1 SELECT CONCAT(CONCAT(e1.FIRST_NAME, ' '), e1.LAST_NAME) AS "MANAGER", CONCAT(CONCAT(e2.FIRST_NAME, ' '), e2.LAST_NAME) AS "WORKER"
2 FROM OEHR_EMPLOYEES e1, OEHR_EMPLOYEES e2
3 WHERE e1.EMPLOYEE_ID = e2.MANAGER_ID;
```

Results Explain Describe Saved SQL History

MANAGER	WORKER
Eleni Zlotkey	Ellen Abel
Alberto Errazuriz	Sundar Arde
Adam Fripp	Mozhe Atkinson
Alexander Hunold	David Austin
Neena Kochhar	Hermann Baer
Den Raphaely	Shelley Baida
Alberto Errazuriz	Amir Banda
Gerald Cambrault	Elizabeth Bates
Shanta Vollman	Sarah Bell
John Russell	David Bernstein

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10. Buatlah Query untuk menampilkan jumlah order masing masing pelanggan.

Query:

```
SELECT CUSTOMER_ID, COUNT(*) AS "TOTAL_ORDER"
FROM OEHR_ORDERS
GROUP BY CUSTOMER_ID;
```

Screenshot:

APEX App Builder SQL Workshop Team Development Gallery

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SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```
1 SELECT CUSTOMER_ID, COUNT(*) AS "TOTAL_ORDER"
2 FROM OEHR_ORDERS
3 GROUP BY CUSTOMER_ID;
```

Results Explain Describe Saved SQL History

CUSTOMER_ID	TOTAL_ORDER
101	4
102	4
103	4
104	4
105	4
106	4
107	4
108	4
109	4
116	4

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