

**PRAKTIKUM BASIS DATA
BERSAMA DOSEN PRAKTISI**

“SQL Query Comparison”



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**PS D-III TEKNIK INFORMATIKA
SEKOLAH VOKASI UNIVERSITAS
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Tugas SQL Query Comparison

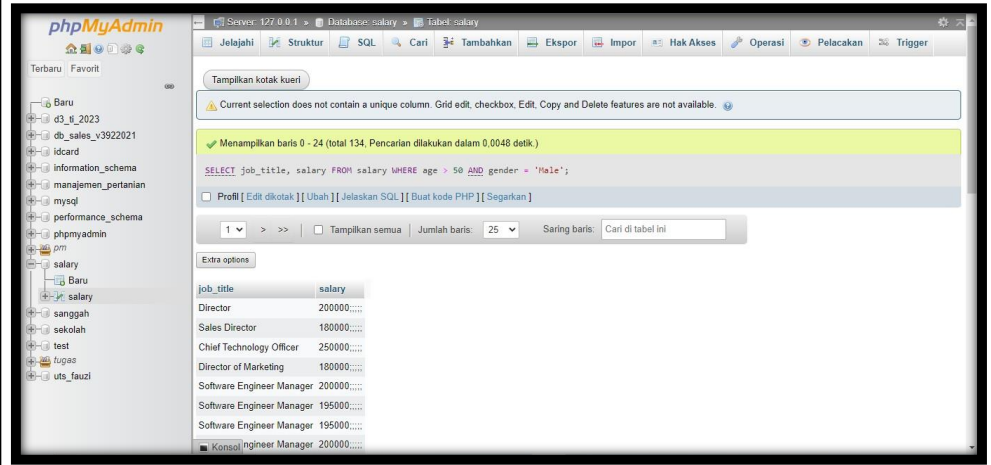
Sebelum mengerjakan tugas berikut ini, download file salary.csv kemudian buatlah database salary dan lakukan import data menggunakan data salary.csv

Kerjakan soal – soal berikut ini !

1. Tampilkan data job tittle dan salary yang umurnya diatas 50 dan berjenis kelamin Male

Jawab :

```
1 SELECT
2     job_title,
3     salary
4 FROM
5     salary
6 WHERE
7     age > 50 AND gender = 'Male';
```



Menampilkan kotak kueri

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Menampilkan baris 0 - 24 (total 134. Pencarian dilakukan dalam 0,0048 detik.)

`SELECT job_title, salary FROM salary WHERE age > 50 AND gender = 'Male';`

☐ Profil ☐ Edit kotak ☐ Ubah ☐ [Jelaskan SQL] ☐ [Buat kode PHP] ☐ [Segarkan]

1 > >> ☐ Tampilkan semua | Jumlah baris: 25 | Saring baris: Cari di tabel ini

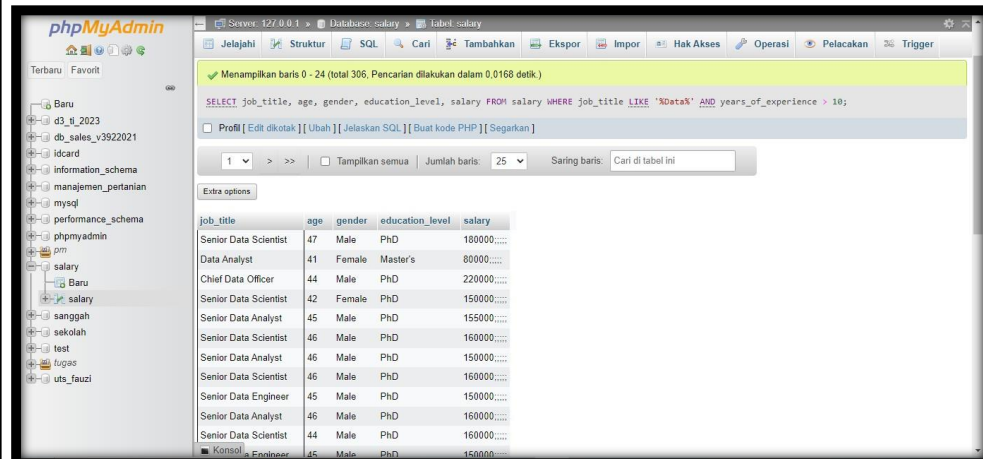
Extra options

job_title	salary
Director	200000.....
Sales Director	180000.....
Chief Technology Officer	250000.....
Director of Marketing	180000.....
Software Engineer Manager	200000.....
Software Engineer Manager	195000.....
Software Engineer Manager	195000.....
Software Engineer Manager	200000.....

2. Tampilkan data job title, age, gender, education level, dan salary yang mempunyai pekerjaan dibidang Data dengan pengalaman pekerjaan diatas 10 tahun

Jawab :

```
1 SELECT
2     job_title,
3     age,
4     gender,
5     education_level,
6     salary
7 FROM
8     salary
9 WHERE
10    job_title LIKE '%Data%' AND years_of_experience > 10;
```



Menampilkan baris 0 - 24 (total 306, Pencarian dilakukan dalam 0.0168 detik.)

```
SELECT job_title, age, gender, education_level, salary FROM salary WHERE job_title LIKE '%Data%' AND years_of_experience > 10;
```

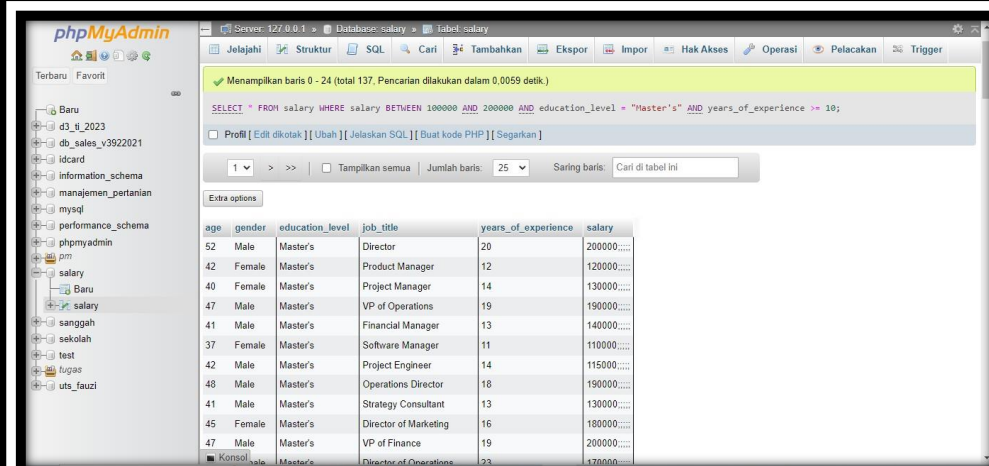
1 > >> ☐ Tampilkan semua | Jumlah baris: 25 | Saring baris:

job_title	age	gender	education_level	salary
Senior Data Scientist	47	Male	PhD	180000.....
Data Analyst	41	Female	Master's	80000.....
Chief Data Officer	44	Male	PhD	220000.....
Senior Data Scientist	42	Female	PhD	150000.....
Senior Data Analyst	45	Male	PhD	155000.....
Senior Data Scientist	46	Male	PhD	160000.....
Senior Data Analyst	46	Male	PhD	150000.....
Senior Data Scientist	46	Male	PhD	160000.....
Senior Data Engineer	45	Male	PhD	150000.....
Senior Data Analyst	46	Male	PhD	160000.....
Senior Data Scientist	44	Male	PhD	160000.....
Senior Data Engineer	45	Male	PhD	150000.....

3. Tampilkan seluruh data yang salarynya diantara 100000 dan 200000 juga memiliki education level S2 (master) yang pengalaman kerjanya tidak boleh dibawah 10 tahun.

Jawab :

```
1 SELECT
2 *
3 FROM
4 salary
5 WHERE
6 salary BETWEEN 100000 AND 200000 AND education_level = "Master's" AND years_of_experience >= 10;
```



Menampilkan baris 0 - 24 (total 137. Pencarian dilakukan dalam 0.0059 detik.)

`SELECT * FROM salary WHERE salary BETWEEN 100000 AND 200000 AND education_level = "Master's" AND years_of_experience >= 10;`

☐ Profil ☐ Edit ☐ dikotak ☐ Ubah ☐ [[Jelaskan SQL]] ☐ [[Buat kode PHP]] ☐ [[Segarkan]]

1 > >> ☐ Tampilkan semua | Jumlah baris: 25 | Saring baris: Cari di tabel ini

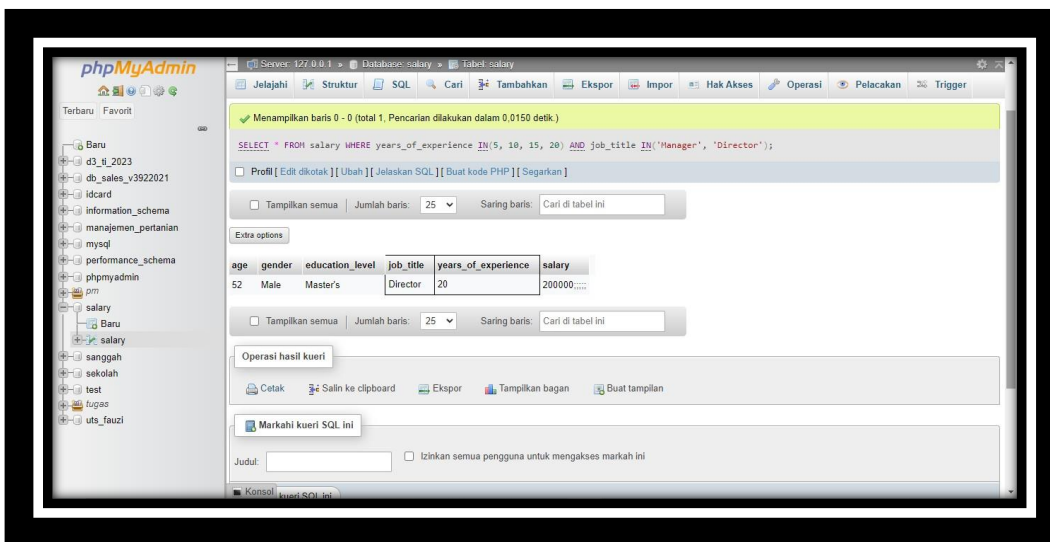
Extra options

age	gender	education_level	job_title	years_of_experience	salary
52	Male	Master's	Director	20	200000
42	Female	Master's	Product Manager	12	120000
40	Female	Master's	Project Manager	14	130000
47	Male	Master's	VP of Operations	19	190000
41	Male	Master's	Financial Manager	13	140000
37	Female	Master's	Software Manager	11	110000
42	Male	Master's	Project Engineer	14	115000
48	Male	Master's	Operations Director	18	190000
41	Male	Master's	Strategy Consultant	13	130000
45	Female	Master's	Director of Marketing	16	180000
47	Male	Master's	VP of Finance	19	200000
47	Male	Master's	Director of Operations	23	170000

4. Tampilkan seluruh data yang memiliki pengalaman kerja 5, 10,15, dan 20 tahun yang bekerja sebagai manager atau director.

Jawab :

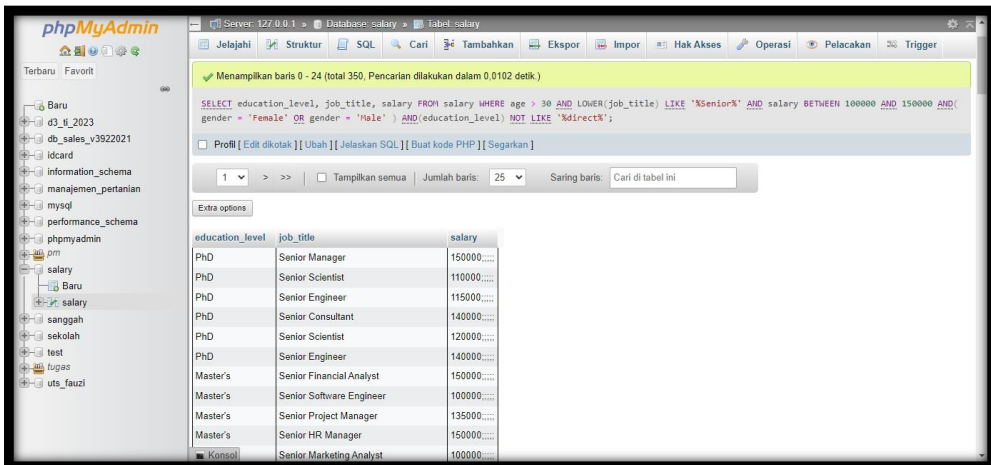
```
1 SELECT
2 *
3 FROM
4 salary
5 WHERE
6 years_of_experience IN(5, 10, 15, 20) AND job_title IN('Manager', 'Director');
```



5. Tampilkan education level, job tittle, dan salary yang berumur diatas 30 tahun dan bekerja di level Senior dengan range gaji antara 100000 sampai 150000 boleh Female atau Male tapi yang education levelnya master / phd (bukan bachelor).

Jawab :

```
1 SELECT
2     education_level,
3     job_title,
4     salary
5 FROM
6     salary
7 WHERE
8     age > 30 AND LOWER(job_title) LIKE '%Senior%' AND salary BETWEEN 100000 AND 150000 AND(
9     gender = 'Female' OR gender = 'Male'
10 ) AND(education_level) NOT LIKE '%direct%';
```



Menampilkan baris 0 - 24 (total 350, Pencarian dilakukan dalam 0.0102 detik)

```
SELECT education_level, job_title, salary FROM salary WHERE age > 30 AND LOWER(job_title) LIKE '%Senior%' AND salary BETWEEN 100000 AND 150000 AND(
gender = 'Female' OR gender = 'Male' ) AND(education_level) NOT LIKE '%direct%';
```

1 > >> ☐ Tampilkan semua | Jumlah baris: 25 | Saring baris: Cari di tabel ini

Extra options

education_level	job_title	salary
PhD	Senior Manager	150000....
PhD	Senior Scientist	110000....
PhD	Senior Engineer	115000....
PhD	Senior Consultant	140000....
PhD	Senior Scientist	120000....
PhD	Senior Engineer	140000....
Master's	Senior Financial Analyst	150000....
Master's	Senior Software Engineer	100000....
Master's	Senior Project Manager	135000....
Master's	Senior HR Manager	150000....
Master's	Senior Marketing Analyst	100000....