

TEST ONLINE PT. KREATOR SOLUSI INFORMASI

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Web Developer

1. QUERY SQL Menampilkan semua data mahasiswa dan mata kuliah beserta nilai.

Jawaban :

```
SELECT
```

```
tmahasiswa.NIRM,
```

```
tmahasiswa>NamaMahasiswa,
```

```
tnilai.KodeMK,
```

```
tmatakuliah>NamaMataKuliah,
```

```
tnilai.Grade
```

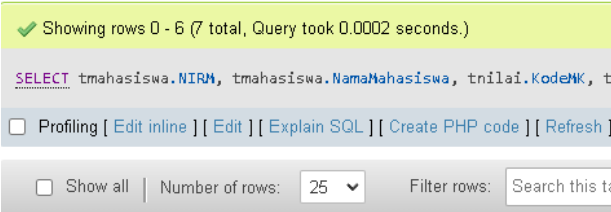
```
FROM tnilai
```

```
JOIN tmatakuliah
```

```
ON tmatakuliah.KodeMK = tnilai.KodeMK
```

```
JOIN tmahasiswa
```

```
ON tmahasiswa.NIRM = tnilai.NIRM;
```



Showing rows 0 - 6 (7 total, Query took 0.0002 seconds.)

```
SELECT tmahasiswa.NIRM, tmahasiswa>NamaMahasiswa, tnilai.KodeMK, tmatakuliah>NamaMataKuliah, tnilai.Grade
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

NIRM	NamaMahasiswa	KodeMK	NamaMataKuliah	Grade
E31191434	Agna	MK-01	Matematika	70
E31191234	Rizky	MK-01	Matematika	40
E31192000	Putra	MK-03	Statistika	80
E31191434	Agna	MK-05	Aljabar	78
E31192000	Putra	MK-07	Pancasila	50
E31191434	Agna	MK-03	Statistika	75
E31191234	Rizky	MK-03	Statistika	65


2. QUERY SQL Menampilkan data dengan usia 25 tahun dan grade dibawah 60

Jawaban :

```

SELECT
tmahasiswa.NIRM,
tmahasiswa>NamaMahasiswa,
tnilai.KodeMK,
tmatakuliah>NamaMataKuliah,
tnilai.Grade
FROM tnilai
JOIN tmatakuliah
ON tmatakuliah.KodeMK = tnilai.KodeMK
JOIN tmahasiswa
ON tmahasiswa.NIRM = tnilai.NIRM
WHERE tmahasiswa.TglLahir < '1996-01-01' AND tnilai.Grade < 60;

```

 Showing rows 0 - 1 (2 total, Query took 0.0016 seconds.)

```

SELECT tmahasiswa.NIRM, tmahasiswa>NamaMahasiswa, tnilai.KodeMK, tmatak
tmahasiswa.TglLahir < '1996-01-01' AND tnilai.Grade < 60;

```

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☐ Show all | Number of rows: 25 ▼ Filter rows:

NIRM	NamaMahasiswa	KodeMK	NamaMataKuliah	Grade
E31191234	Rizky	MK-01	Matematika	40
E31192000	Putra	MK-07	Pancasila	50

3. QUERY SQL menampilkan mata kuliah yang tidak diambil oleh mahasiswa sama sekali

Jawaban :

```

SELECT
tmatakuliah.KodeMK,
tmatakuliah>NamaMataKuliah
FROM tnilai

```

RIGHT OUTER JOIN tmatakuliah
ON tmatakuliah.KodeMK = tnilai.KodeMK
LEFT OUTER JOIN tmahasiswa
ON tmahasiswa.NIRM = tnilai.NIRM
WHERE tnilai.KodeMK IS NULL;

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)

```
SELECT tmatakuliah.KodeMK, tmatakuliah>NamaMataKuliah FROM tnilai RIGHT OUTER JOIN tmatakuliah ON tmatakuliah.KodeMK = tnilai.KodeMK LEFT OUTER JOIN tmahasiswa ON tmahasiswa.NIRM = tnilai.NIRM WHERE tnilai.KodeMK IS NULL;
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

KodeMK	NamaMataKuliah
MK-09	Agama

4. QUERY SQL menampilkan mahasiswa yang mengambil mata kuliah “Matematika”

Jawaban :

SELECT
tmahasiswa.NIRM,
tmahasiswa>NamaMahasiswa,
tmatakuliah.KodeMK,
tmatakuliah>NamaMataKuliah
FROM tnilai
JOIN tmatakuliah
ON tmatakuliah.KodeMK = tnilai.KodeMK
JOIN tmahasiswa
ON tmahasiswa.NIRM = tnilai.NIRM
WHERE tmatakuliah>NamaMataKuliah = "Matematika";

Showing rows 0 - 1 (2 total, Query took 0.0002 seconds.)

```
SELECT tmahasiswa.NIRM, tmahasiswa>NamaMahasiswa, tmatakuliah.KodeMK, tmatakuliah>NamaMataKuliah FROM tnilai JOIN tmatakuliah ON tmatakuliah.KodeMK = tnilai.KodeMK JOIN tmahasiswa ON tmahasiswa.NIRM = tnilai.NIRM WHERE tmatakuliah>NamaMataKuliah = "Matematika";
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this

Extra options

NIRM	NamaMahasiswa	KodeMK	NamaMataKuliah
E31191434	Agna	MK-01	Matematika
E31191234	Rizky	MK-01	Matematika

5. QUERY SQL yang mengambil mata kuliah “Statistika” dan memiliki nilai diantara 55 dan 79

Jawaban :

SELECT

tmahasiswa.NIRM,

tmahasiswa>NamaMahasiswa,

tmatakuliah.KodeMK,

tmatakuliah>NamaMataKuliah,

tnilai.Grade

FROM tnilai

JOIN tmatakuliah

ON tmatakuliah.KodeMK = tnilai.KodeMK

JOIN tmahasiswa

ON tmahasiswa.NIRM = tnilai.NIRM

WHERE tmatakuliah>NamaMataKuliah = "Statistika" AND(tnilai.Grade >= 55 AND tnilai.Grade <= 79);

Showing rows 0 - 1 (2 total, Query took 0.0002 seconds.)

```
SELECT tmahasiswa.NIRM, tmahasiswa>NamaMahasiswa, tmatakuliah.KodeMK, tmatakuliah>NamaMataKuliah, tnilai.Grade
WHERE tmatakuliah>NamaMataKuliah = "Statistika" AND(tnilai.Grade >= 55 AND tnilai.Grade <= 79);
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

NIRM	NamaMahasiswa	KodeMK	NamaMataKuliah	Grade
E31191434	Aгна	MK-03	Statistika	75
E31191234	Rizky	MK-03	Statistika	65

6. Menampilkan rata-rata nilai mahasiswa untuk setiap mata kuliah yang ada

Jawaban :

SELECT

tmatakuliah.KodeMK,

tmatakuliah>NamaMataKuliah,

AVG(tnilai.Grade)

FROM tmatakuliah

LEFT JOIN tnilai

ON tnilai.KodeMK = tmatakuliah.KodeMK

GROUP BY tnilai.KodeMK

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds)

SELECT tmatakuliah.KodeMK, tmatakuliah>NamaMataKuliah, AVG(tnilai.Grade) AS AvgGrade

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create P

☐ Show all | Number of rows: 25 ▼ Filter

Extra options

KodeMK	NamaMataKuliah	AVG(tnilai.Grade)
MK-09	Agama	NULL
MK-01	Matematika	55.0000
MK-03	Statistika	73.3333
MK-05	Aljabar	78.0000
MK-07	Pancasila	50.0000