

Nama : Naufal Hidayatul Fikri

test database

1. . Update alamat mahasiswa dengan NIM '123456' menjadi 'Jl. Raya No.5'.

```
42 --soal1
43 UPDATE mahasiswa
44 SET alamat = 'Jl. Raya No.5'
45 WHERE nim = '123456';
46
47
48 select * from mahasiswa;
```

Data Output Messages Notifications

	nim [PK] character varying (6)	nama character varying (100)	alamat text	jurusan character varying (100)	umur integer
1	234567	Alice	Jl. Gatot Subroto	Sistem Informasi	23
2	345678	Bob	Jl. Sudirman No. 5	Teknik Informatika	20
3	456789	Cindy	Jl. Pahlawan No. 2	Manajemen	22
4	567890	David	Jl. Diponegoro No. 3	Teknik Elektro	25
5	678901	Emily	Jl. Cendrawasih No. 4	Manajemen	24
6	789012	Frank	Jl. Ahmad Yani No. 6	Teknik Informatika	19
7	123456	John	Jl. Raya No.5	Teknik Informatika	21

2. Tampilkan NIM, nama, dan jurusan dari mahasiswa yang memiliki jurusan 'Teknik Informatika', serta tampilkan juga nama dosen pembimbingnya

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Query Query History

```
45 WHERE nim = '123456';
46
47
48 select * from mahasiswa;
49
50 --soal2
51 SELECT
52 mahasiswa.nim,
53 mahasiswa.nama,
54 mahasiswa.jurusan,
55 mata_kuliah.dosen_pengajar AS dosen_pembimbing
56 FROM
57 mahasiswa
58 JOIN
59 mata_kuliah ON mahasiswa.nim = mata_kuliah.nim
60 WHERE
61 mahasiswa.jurusan = 'Teknik Informatika';
62
```

Data Output Messages Notifications

	nim character varying (6)	nama character varying (100)	jurusan character varying (100)	dosen_pembimbing character varying (100)
1	123456	John	Teknik Informatika	Pak Budi
2	345678	Bob	Teknik Informatika	Pak Dodi
3	123456	John	Teknik Informatika	Pak Budi
4	789012	Frank	Teknik Informatika	Pak Galih
5	123456	John	Teknik Informatika	Pak Budi

Total rows: 5 of 5 Query complete 00:00:00.335 Ln 62, Col 1

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3. Tampilkan 5 nama mahasiswa dengan umur tertua.

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Prodi/postgres@PostgreSQL 16

Query History

```

55 mata_kuliah.dosen_pengajar AS dosen_pembimbing
56 FROM
57 mahasiswa
58 JOIN
59 mata_kuliah ON mahasiswa.nim = mata_kuliah.nim
60 WHERE
61 mahasiswa.jurusan = 'Teknik Informatika';
62
63 --soal3
64 SELECT
65     nama,
66     umur
67 FROM
68     mahasiswa
69 ORDER BY |
70     umur DESC
71 LIMIT 5;
72

```

Data Output Messages Notifications

	nama	umur
1	David	25
2	Emily	24
3	Alice	23
4	Cindy	22
5	John	21

Total rows: 5 of 5 Query complete 00:00:00.215 Ln 69, Col 10

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4. Tampilkan nama mahasiswa, mata kuliah yang diambil, dan nilai yang diperoleh untuk setiap mata kuliah. Hanya tampilkan data mahasiswa yang memiliki nilai lebih bagus dari 70.

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Object Explorer

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    - Materialized View
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    - Procedures
    - Sequences
    - Tables (2)
      - mahasiswa
      - mata\_kuliah
    - Trigger Functions
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  - Catalogs
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Dashboard x Properties x SQL x Statistics x Dependencies x Dependents x Processes x Prodi/postgres@PostgreSQL 16\*

Prodi/postgres@PostgreSQL 16

Query History

```

58 mahasiswa
59 ORDER BY
60     umur DESC
61 LIMIT 5;
62
63 --soal4
64 SELECT
65     mahasiswa.nama,
66     mata_kuliah.mata_kuliah,
67     mata_kuliah.nilai
68 FROM
69     mahasiswa
70 JOIN
71     mata_kuliah ON mahasiswa.nim = mata_kuliah.nim
72 WHERE
73     mata_kuliah.nilai > 70;
74

```

Data Output Messages Notifications

	nama	mata_kuliah	nilai
1	Bob	Jaringan Komputer	75
2	Cindy	Manajemen Proyek	80
3	David	Bahasa Inggris	85
4	Emily	Statistika	75
5	John	Pemrograman Java	95
6	John	Sistem Operasi	90
7	John	Pemrograman Web	85

Total rows: 7 of 7 Query complete 00:00:00.246 Ln 84, Col 28

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