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MODUL 10

SubQuery

Tugas

Gunakan sub query untuk mendapatkan data-data berikut dari database data kuliah yang telah anda bangun pada modul 4 dan 5

1. Ambil salah satu mata kuliah. Tampilkan daftar mahasiswa yang tidak mengambil mata kuliah tersebut.

```
MariaDB [perkuliahan]> select * from mahasiswa where nim not in(select nim from link_mahasiswa_matkul where kode_matkul = 'TIF001');
+-----+-----+-----+-----+
| nim      | nama                  | alamat    | tgl_lahir |
+-----+-----+-----+-----+
| L200150125 | Indra Bayu Candra Gupta | Wonogiri  | 1993-08-28 |
+-----+-----+-----+-----+
1 row in set (0.08 sec)
```

```
MariaDB [perkuliahan]> select * from mahasiswa where nim not in(select nim from link_mahasiswa_matkul where kode_matkul = 'TIF004');
+-----+-----+-----+-----+
| nim      | nama                  | alamat    | tgl_lahir |
+-----+-----+-----+-----+
| L200150118 | Rina Kurniasari       | Wonogiri  | 1997-11-11 |
| L200150125 | Indra Bayu Candra Gupta | Wonogiri  | 1993-08-28 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

2. Satu dosen dapat mengampu lebih dari satu mata kuliah dan satu mahasiswa dapat mengambil lebih dari satu mata kuliah. Tampilkan daftar mahasiswa yang mengambil semua mata kuliah yang diampu oleh salah satu dosen!

```
MariaDB [perkuliahan]> select mahasiswa.nim, mahasiswa.nama from mahasiswa , link_mahasiswa_matkul, matkul where mahasiswa.nim = link_mahasiswa_matkul.nim and matkul.kode_matkul = link_mahasiswa_matkul.kode_matkul and matkul.kode_dosen = (select kode_dosen from dosen where kode_dosen = 'D002');
+-----+-----+
| nim      | nama                  |
+-----+-----+
| L200150088 | Khofa Prayoga        |
| L200150099 | Purwantinah          |
| L200150112 | Dwi Pratiwi Putri    |
| L200150113 | Ismi Kamelia Najib Putri |
| L200150118 | Rina Kurniasari       |
| L200150123 | Danindya Puput Muliana Putri |
| L200150125 | Indra Bayu Candra Gupta |
| L200150127 | Lyon                 |
| L200150128 | Sulthana Dzakira Drajat |
| L200150129 | Fendy                |
| L200150146 | Fakhrur Razi         |
| L200154001 | Khilyatin Ulin Fitri  |
+-----+-----+
12 rows in set (0.00 sec)
```

- Karena salah satu mata kuliah(A) dihilangkan, seluruh mahasiswa yang mengambil mata kuliah tersebut dipindahkan untuk mengambil mata kuliah lain (B). Lakukan update data menggunakan sub query!

```
MariaDB [perkuliahan1] > update link_mahasiswa_matkul set kode_matkul = 'TIF002' where kode_matkul = (select kode_matkul from matkul where kode_matkul = 'TIF002');
Query OK, 0 rows affected (0.01 sec)
Rows matched: 14  Changed: 0  Warnings: 0

MariaDB [perkuliahan1] > select * from link_mahasiswa_matkul;
```

nim	kode_matkul	nilai
L200150083	TIF001	70
L200150083	TIF002	60
L200150083	TIF003	70
L200150083	TIF004	88
L200150083	TIF005	79
L200150088	TIF001	80
L200150088	TIF002	80
L200150088	TIF003	80
L200150088	TIF004	80
L200150088	TIF005	80
L200150088	TIF006	80
L200150088	TIF007	84
L200150088	TIF008	80
L200150088	TIF010	80
L200150099	TIF001	70
L200150099	TIF002	80
L200150099	TIF003	70
L200150099	TIF004	70
L200150099	TIF005	90
L200150099	TIF006	80
L200150099	TIF007	74
L200150099	TIF008	70
L200150099	TIF010	70
L200150112	TIF001	90
L200150112	TIF002	70
L200150112	TIF003	70
L200150112	TIF004	80
L200150112	TIF005	70
L200150112	TIF008	70
L200150112	TIF010	70
L200150113	TIF001	70
L200150113	TIF002	60
L200150113	TIF003	70
L200150113	TIF004	80
L200150113	TIF005	70
L200150113	TIF008	70
L200150113	TIF010	80
L200150117	TIF001	80
L200150117	TIF002	80
L200150117	TIF003	70
L200150117	TIF004	88
L200150117	TIF005	89
L200150117	TIF006	80
L200150117	TIF007	81
L200150118	TIF001	80
L200150118	TIF002	80
L200150118	TIF006	80

L200150125	TIF007	78
L200150125	TIF008	78
L200150125	TIF010	82
L200150127	TIF001	90
L200150127	TIF002	85
L200150127	TIF003	94
L200150127	TIF004	96
L200150127	TIF005	80
L200150127	TIF007	85
L200150127	TIF008	80
L200150127	TIF010	92
L200150128	TIF001	80
L200150128	TIF002	80
L200150128	TIF003	78
L200150128	TIF004	80
L200150128	TIF005	76
L200150128	TIF006	80
L200150128	TIF007	74
L200150128	TIF008	85
L200150128	TIF010	80
L200150129	TIF001	80
L200150129	TIF002	90
L200150129	TIF003	88
L200150129	TIF004	80
L200150129	TIF005	96
L200150129	TIF006	90
L200150129	TIF007	94
L200150129	TIF008	85
L200150129	TIF010	90
L200150144	TIF001	80
L200150144	TIF002	80
L200150144	TIF003	70
L200150144	TIF004	78
L200150144	TIF005	79
L200150144	TIF006	80
L200150144	TIF007	81
L200150146	TIF001	90
L200150146	TIF002	90
L200150146	TIF003	90
L200150146	TIF004	90
L200150146	TIF005	90
L200150146	TIF006	90
L200150146	TIF007	94
L200150146	TIF008	90
L200150146	TIF010	90
L200154001	TIF001	70
L200154001	TIF002	80
L200154001	TIF003	90
L200154001	TIF004	80
L200154001	TIF005	70
L200154001	TIF006	80
L200154001	TIF007	94
L200154001	TIF008	80
L200154001	TIF010	70

115 rows in set (0.00 sec)