IRSANDI NUR HABIBIE MUKMIN

SIB - A

HOMEWORK 1 (ADVANCE SQL)

```sql
select
a.nim ,
a.nama ,
extract (year from age(current_date,a.ttl))as umur,
max(c.semester) as Semester
from
z_mahasiswa as a
left join
z_nilai  as b
on a.nim = b.nim
left join
z_kuliah  as c
on b.kode_mk = c.kode_mk
group by a.nim
order by a.nim asc;
```

	nim	nama	umur	semester
1	20216001	Jaka Juliarta	22	6
2	20216002	Sekar Budiman	20	6
3	20216003	Citra Andara	20	5

```sql
WITH table1 AS (SELECT
a.nim,
a.nama,
max(b.nilai_akhir) AS nilai_tertinggi
FROM
    z_mahasiswa AS a
    LEFT JOIN
    z_nilai AS b
    ON a.nim = b.nim
GROUP BY a.nim, a.nama),
table2 AS (SELECT a.nama,
max(b.nilai_akhir) AS nilai_tertinggi, c.nama_mk
FROM
    z_mahasiswa AS a
    LEFT JOIN
    z_nilai AS b
    ON a.nim = b.nim
    LEFT JOIN
    z_kuliah AS c
    ON b.kode_mk = c.kode_mk
GROUP BY a.nim, c.nama_mk)
SELECT
    a.nim,
    a.nama,
    a.nilai_tertinggi,
    b.nama_mk
FROM
    table1 AS a
LEFT JOIN
    table2 AS b
ON a.nama = b.nama AND a.nilai_tertinggi = b.nilai_tertinggi
ORDER BY nilai_tertinggi DESC;
```

	nim	nama	nilai_tertinggi	nama_mk
1	20216001	Jaka Juliarta	93.2	Makroekonomi 2
2	20216002	Sekar Budiman	92.8	Ekonomi Moneter Lanjutan
3	20216003	Citra Andara	87.2	Ekonomi Politik