

ASSIGNMENT 4

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Buat database dengan data tabel *student* berikut:

No	NIM	Name	City Address	Age	IPK	Departement
1	12345	Adi	Jakarta	17	2,5	Math
2	12346	Ani	Yogyakarta	20	2,1	Math
3	12347	Ari	Surabaya	18	2,5	Computer
4	12348	Ali	Banjarmasin	20	3,5	Computer
5	12349	Abi	Medan	17	3,7	Computer
6	12350	Budi	Jakarta	19	3,8	Computer
7	12351	Boni	Yogyakarta	20	3,2	Computer
8	12352	Bobi	Surabaya	17	2,7	Computer
9	12353	Beni	Banjarmasin	18	2,3	Computer
10	12354	Cepi	Jakarta	20	2,2	Null
11	12355	Coni	Yogyakarta	22	2,6	Null
12	12356	Ceki	Surabaya	21	2,5	Math
13	12357	Dodi	Jakarta	20	3,1	Math
14	12358	Didi	Yogyakarta	19	3,2	Physics
15	12359	Deri	Surabaya	19	3,3	Physics
16	12360	Eli	Jakarta	20	2,9	Physics
17	12361	Endah	Yogyakarta	18	2,8	Physics
18	12362	Feni	Jakarta	17	2,7	Null
19	12363	Farah	Yogyakarta	18	3,5	Null
20	12364	Fandi	Surabaya	19	3,4	Null

Telah dibuat database dengan table student:

```
mysql> select * from student;
```

NO	NIM	Name	City_Address	Age	IPK	Departement
1	12345	Adi	Jakarta	17	2.50	Math
2	12346	Ani	Yogyakarta	20	2.10	Math
3	12347	Ari	Surabaya	18	2.50	Computer
4	12348	Ali	Banjarmasin	20	3.50	Computer
5	12349	Abi	Medan	17	3.70	Computer
6	12350	Budi	Jakarta	19	3.80	Computer
7	12351	Boni	Yogyakarta	20	3.20	Computer
8	12352	Bobi	Surabaya	17	2.70	Computer
9	12353	Beni	Banjarmasin	18	2.30	Computer
10	12354	Cepi	Jakarta	20	2.20	NULL
11	12355	Coni	Yogyakarta	22	2.60	NULL
12	12356	Ceki	Surabaya	21	2.50	Math
13	12357	Dodi	Jakarta	20	3.10	Math
14	12358	Didi	Yogyakarta	19	3.20	Physics
15	12359	Deri	Surabaya	19	3.30	Physics
16	12360	Eli	Jakarta	20	2.90	Physics
17	12361	Endah	Yogyakarta	18	2.80	Physics
18	12362	Feni	Jakarta	17	2.70	NULL
19	12363	Farah	Yogyakarta	18	3.50	NULL
20	12364	Fandi	Surabaya	19	3.40	NULL

```
20 rows in set (0.00 sec)
```

1. Tampilkan kolom *city address* tanpa ada nilai duplikat

`select distinct city_address from student;`

```
mysql> select distinct city_address from student;
+-----+
| city_address |
+-----+
| Jakarta      |
| Yogyakarta   |
| Surabaya     |
| Banjarmasin  |
| Medan        |
+-----+
5 rows in set (0.00 sec)
```

2. Tampilkan data *name* dari mahasiswa yang memiliki departemen 'Computer'

`select name from student where departement = 'Computer';`

```
mysql> select name from student where departement = 'Computer';
+-----+
| name |
+-----+
| Ari   |
| Ali   |
| Abi   |
| Budi  |
| Boni  |
| Bobi  |
| Beni  |
+-----+
7 rows in set (0.00 sec)
```

3. Tampilkan data *nim*, *name*, *age* dan *address* yang diurutkan dari mahasiswa yang tertua

`select nim, name, age, city_address from student order by age desc;`

```
mysql> select nim, name, age, city_address from student order by age desc;
+-----+-----+-----+-----+
| nim | name | age | city_address |
+-----+-----+-----+-----+
| 12355 | Coni | 22 | Yogyakarta |
| 12356 | Ceki | 21 | Surabaya |
| 12346 | Ani | 20 | Yogyakarta |
| 12348 | Ali | 20 | Banjarmasin |
| 12351 | Boni | 20 | Yogyakarta |
| 12354 | Cepi | 20 | Jakarta |
| 12357 | Dodi | 20 | Jakarta |
| 12360 | Eli | 20 | Jakarta |
| 12350 | Budi | 19 | Jakarta |
| 12358 | Didi | 19 | Yogyakarta |
| 12359 | Deri | 19 | Surabaya |
| 12364 | Fandi | 19 | Surabaya |
| 12347 | Ari | 18 | Surabaya |
| 12353 | Beni | 18 | Banjarmasin |
| 12361 | Endah | 18 | Yogyakarta |
| 12363 | Farah | 18 | Yogyakarta |
| 12345 | Adi | 17 | Jakarta |
| 12349 | Abi | 17 | Medan |
| 12352 | Bobi | 17 | Surabaya |
| 12362 | Feni | 17 | Jakarta |
+-----+-----+-----+-----+
20 rows in set (0.00 sec)
```

4. Tampilkan *name* dan *age* dari 3 mahasiswa termuda dari 'Jakarta'
 select name, age from student where city_address='Jakarta'
 -> order by age asc
 -> limit 3;

```
mysql> select name, age from student where city_address='Jakarta'
-> order by age asc
-> limit 3;
+-----+-----+
| name | age |
+-----+-----+
| Adi   | 17  |
| Feni  | 17  |
| Budi  | 19  |
+-----+-----+
3 rows in set (0.00 sec)
```

5. Tampilkan *name* dan *ipk* mahasiswa dari 'Jakarta' dengan ipk dibawah 2,5
 select name, ipk from student where city_address='Jakarta' and ipk < 2.5;

```
mysql> select name, ipk from student where city_address='Jakarta' and ipk < 2.5;
+-----+-----+
| name | ipk |
+-----+-----+
| Cepi | 2.20 |
+-----+-----+
1 row in set (0.00 sec)
```

6. Tampilkan *name* mahasiswa mana saja yang dari 'Yogyakarta' atau berusia lebih dari 20 tahun
 select name from student where city_address='Yogyakarta' or age > 20;

```
mysql> select name from student where city_address='Yogyakarta' or age > 20;
+-----+
| name |
+-----+
| Ani   |
| Boni  |
| Coni  |
| Ceki  |
| Didi  |
| Endah |
| Farah |
+-----+
7 rows in set (0.00 sec)
```

7. Tampilkan *name* dan *address* mahasiswa yang bukan dari 'Jakarta' dan 'Surabaya'
 select name, city_address from student where city_address not in ('Jakarta', 'Surabaya');

```
mysql> select name, city_address from student where city_address not in ('Jakarta', 'Surabaya');
+-----+-----+
| name | city_address |
+-----+-----+
| Ani   | Yogyakarta   |
| Ali   | Banjarmasin  |
| Abi   | Medan        |
| Boni  | Yogyakarta   |
| Beni  | Banjarmasin  |
| Coni  | Yogyakarta   |
| Didi  | Yogyakarta   |
| Endah | Yogyakarta   |
| Farah | Yogyakarta   |
+-----+-----+
9 rows in set (0.00 sec)
```

8. Tampilkan *name*, *age* dan *ipk* mahasiswa dengan *ipk* dari 2,5 hingga 3,5
select name, age, ipk from student where ipk between 2.5 and 3.5;

```
mysql> select name, age, ipk from student where ipk between 2.5 and 3.5
-> ;
```

name	age	ipk
Adi	17	2.50
Ari	18	2.50
Ali	20	3.50
Boni	20	3.20
Bobi	17	2.70
Coni	22	2.60
Ceki	21	2.50
Dodi	20	3.10
Didi	19	3.20
Deri	19	3.30
Eli	20	2.90
Endah	18	2.80
Feni	17	2.70
Farah	18	3.50
Fandi	19	3.40

15 rows in set (0.00 sec)

9. Tampilkan *name* mahasiswa yang memiliki huruf a pada Namanya
select name from student where name like '%a%';

```
mysql> select name from student where name like '%a%';
```

name
Adi
Ani
Ari
Ali
Abi
Endah
Farah
Fandi

8 rows in set (0.00 sec)

10. select nim from student where nim is null or name is null or city_address is null or age is null or ipk is null or departement is null;
select nim from student where nim is null;

```
mysql> select nim from student where nim is null or name is null or city_address is null or age is null or ipk is null or departement is null;
is null;
```

nim
12354
12355
12362
12363
12364

5 rows in set (0.01 sec)