

Praktikum Basis Data

(MII2502)

Bab 5 | Student Activity



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18/430257/PA/18770

2.7 Query Source Code

```
/*1.*/  
SELECT DISTINCT  
    city  
FROM  
    students;  
/*2.*/  
SELECT  
    MAX(ipk)  
FROM  
    students  
WHERE  
    city='Jakarta';  
/*3.*/  
SELECT  
    MIN(ipk)  
FROM  
    students  
WHERE  
    department='Computer';  
/*4.*/  
SELECT  
    AVG(ipk)  
FROM  
    students  
WHERE  
    department='Computer';  
/*5.*/  
/*6.*/  
SELECT  
    COUNT(ipk)  
FROM  
    students  
WHERE  
    department='Computer';  
/*7.*/  
SELECT  
    city, COUNT(*)  
FROM  
    students  
WHERE  
    age<20  
GROUP BY  
    city;
```

Screenshot

Data

```
MariaDB [studentactivity]> select * from students;
```

no	nim	name	city	age	ipk	department
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

```
20 rows in set (0.000 sec)
```

1.

```
MariaDB [studentactivity]> SELECT DISTINCT
->     city
-> FROM
->     students;
```

city
Jakarta
Yogyakarta
Surabaya
Banjarmasin
Medan

```
5 rows in set (0.036 sec)
```

2.

```
MariaDB [studentactivity]> SELECT
->     MAX(ipk)
-> FROM
->     students
-> WHERE
->     city='Jakarta';
+-----+
| MAX(ipk) |
+-----+
|      3.8 |
+-----+
1 row in set (0.036 sec)
```

3.

```
MariaDB [studentactivity]> SELECT
->     MIN(ipk)
-> FROM
->     students
-> WHERE
->     department='Computer';
+-----+
| MIN(ipk) |
+-----+
|      2.3 |
+-----+
1 row in set (0.001 sec)
```

4.

```
MariaDB [studentactivity]> SELECT
->     AVG(ipk)
-> FROM
->     students
-> WHERE
->     department='Computer';
+-----+
| AVG(ipk) |
+-----+
|  3.10000 |
+-----+
1 row in set (0.000 sec)
```

5.

Bayaran "Physics" Department tidak di spesifikasikan

6.

```
MariaDB [studentactivity]> SELECT
->     COUNT(ipk)
-> FROM
->     students
-> WHERE
->     department='Computer';
+-----+
| COUNT(ipk) |
+-----+
|          7 |
+-----+
1 row in set (0.010 sec)
```

7.

```
MariaDB [studentactivity]> SELECT
->     city, COUNT(*)
-> FROM
->     students
-> WHERE
->     age<20
-> GROUP BY
->     city;
+-----+-----+
| city          | COUNT(*) |
+-----+-----+
| Banjarmasin   |         1 |
| Jakarta       |         3 |
| Medan         |         1 |
| Surabaya      |         4 |
| Yogyakarta    |         3 |
+-----+-----+
5 rows in set (0.013 sec)
```