Modul 1
TUGAS INDIVIDU

Perhatikan Data dan Query berikut:

Data

No	DATA
1	advisor = 100, student = 100, section = 200,takes = 200
2	advisor = 200, student = 200, section = 400,takes = 400
3	advisor = 500, student = 500, section = 1000,takes = 1000
4	advisor = 700, student = 700, section = 20000,takes = 20000
5	advisor = 1000, student = 1000, section = 100000,takes = 1000000
6	advisor = 1800, student = 1800, section = 180000,takes = 1800000
7	advisor = 10000, student = 10000, section = 30000000,takes = 30000000

Query

1. SELECT * FROM student
2. SELECT * FROM student WHERE tot_cred > 30;
3. SELECT `name`, department FROM student WHERE tot_cred > 30;
4. SELECT * FROM takes JOIN student ON takes.ID = student.ID JOIN section ON takes.course_id = section.course_id
5. SELECT student.`name`,student.dept_name,takes.sec_id AS pengambilan,takes.semester,section.room_number,section.building,course.course_id,course.dept_name FROM takes JOIN student ON takes.ID = student.ID JOIN section ON takes.course_id = section.course_id JOIN course ON section.course_id = course.course_id

Tugas

1. Lakukan tunning beberapa filed pada pada data yang ada di dalam tabel
2. Catat waktu dari setiap data.
3. Lakukan pada setiap Query

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Kelas : RC

Data	Query				
	1	2	3	4	5
advisor = 100, student = 100, section = 200,takes = 200	0,0008	0,0007	0,0004	0,0026	0,0005
advisor = 200, student = 200, section = 400,takes = 400	0,0004	0,0003	0,0004	0,0023	0,0007
advisor = 500, student = 500, section = 1000,takes = 1000	0,0014	0,0004	0,0004	0,0018	0,0011
advisor = 700, student = 700, section = 20000,takes = 20000	0,0006	0,0005	0,0004	0,0025	0,0023
advisor = 800, student = 800, section = 22000,takes = 22000	0,0016	0,0003	0,0005	0,0035	0,0005
advisor = 900, student = 900, section = 25000,takes = 25000	0,0014	0,0004	0,0005	0,0028	0,0944
advisor = 1000, student = 1000, section = 30000,takes = 30000	0,0008	0,0003	0,0015	0,0028	0,0019

Terjadi runtime terlama pada query 5 di set data ke 4 dengan advisor = 900, student = 900, section = 25000,takes = 25000 Kerana semua terjalankan dengan baik dan menghasilkan join yang banyak.