

Tugas 10

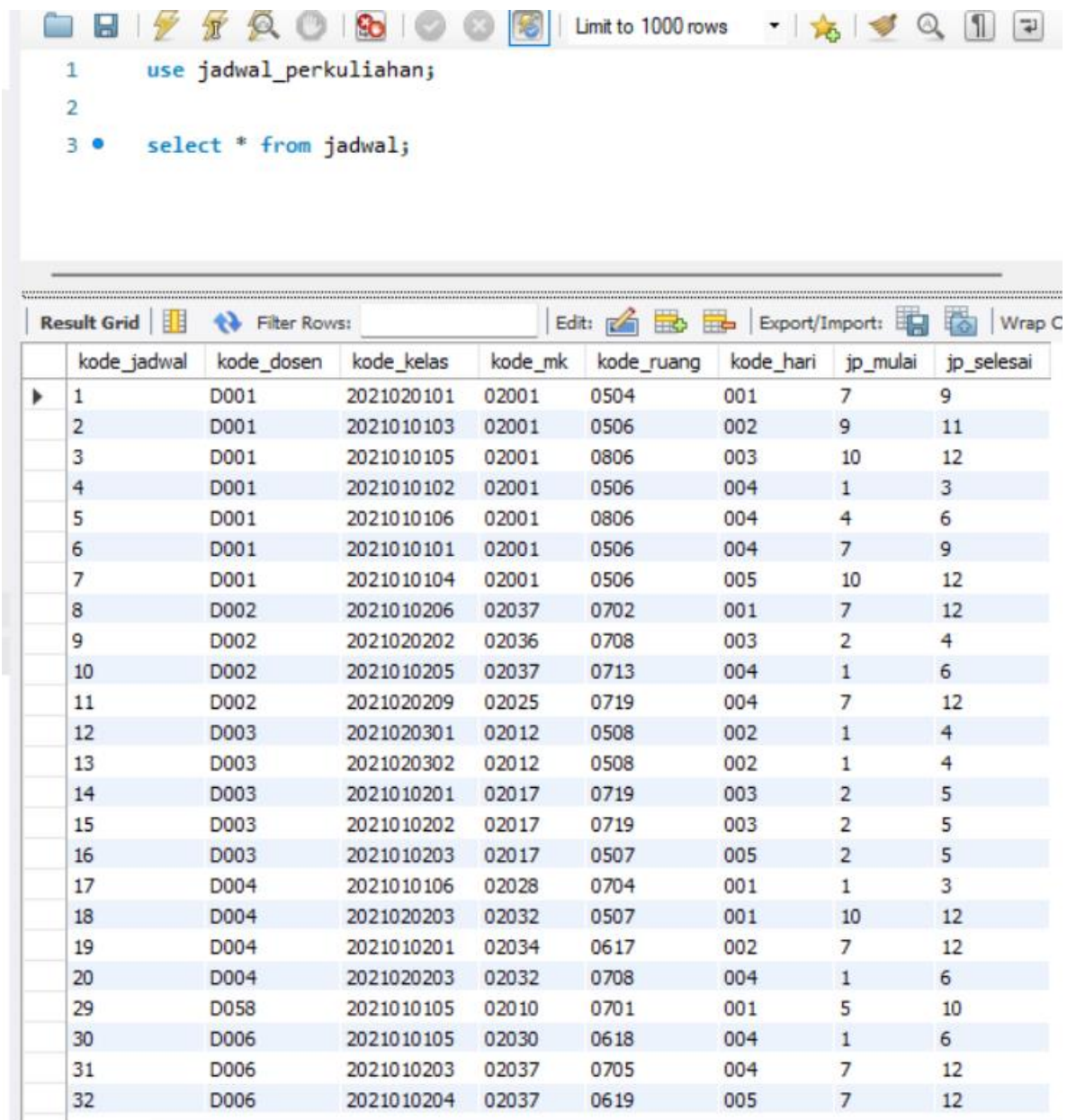
Nama : Ince Ahmad Muhadi Ulilalbab

Prodi : Manajemen Informatika

Kelas : 1A

1. Praktikum Bagian 1

SELECT * FROM jadwal;



The screenshot shows a database management tool interface. At the top, there is a toolbar with various icons and a text box containing the SQL query: `use jadwal_perkuliah;` followed by `select * from jadwal;`. Below the query editor, there is a "Result Grid" section. The grid has a toolbar with icons for "Filter Rows", "Edit", "Export/Import", and "Wrap C". The grid itself contains 32 rows of data, each with 9 columns: `kode_jadwal`, `kode_dosen`, `kode_kelas`, `kode_mk`, `kode_ruang`, `kode_hari`, `jp_mulai`, and `jp_selesai`. The data is as follows:

	kode_jadwal	kode_dosen	kode_kelas	kode_mk	kode_ruang	kode_hari	jp_mulai	jp_selesai
1		D001	2021020101	02001	0504	001	7	9
2		D001	2021010103	02001	0506	002	9	11
3		D001	2021010105	02001	0806	003	10	12
4		D001	2021010102	02001	0506	004	1	3
5		D001	2021010106	02001	0806	004	4	6
6		D001	2021010101	02001	0506	004	7	9
7		D001	2021010104	02001	0506	005	10	12
8		D002	2021010206	02037	0702	001	7	12
9		D002	2021020202	02036	0708	003	2	4
10		D002	2021010205	02037	0713	004	1	6
11		D002	2021020209	02025	0719	004	7	12
12		D003	2021020301	02012	0508	002	1	4
13		D003	2021020302	02012	0508	002	1	4
14		D003	2021010201	02017	0719	003	2	5
15		D003	2021010202	02017	0719	003	2	5
16		D003	2021010203	02017	0507	005	2	5
17		D004	2021010106	02028	0704	001	1	3
18		D004	2021020203	02032	0507	001	10	12
19		D004	2021010201	02034	0617	002	7	12
20		D004	2021020203	02032	0708	004	1	6
29		D058	2021010105	02010	0701	001	5	10
30		D006	2021010105	02030	0618	004	1	6
31		D006	2021010203	02037	0705	004	7	12
32		D006	2021010204	02037	0619	005	7	12

SELECT * FROM prodi;

```
3 • select * from jadwal;
4 • select * from prodi;
```

Result Grid	Filter Rows:
kode_prodi	nama_prodi
001	D3 Manajemen Informatika
002	D4 Teknik Informatika
NULL	NULL

SELECT * FROM kelas;

```
3 • select * from jadwal;
4 • select * from prodi;
5 • select * from kelas;
```

Result Grid	Filter Rows:	Edit:
kode_kelas	kode_prodi	nama_kelas
2021010101	001	MI-1A
2021010102	001	MI-1B
2021010103	001	MI-1C
2021010104	001	MI-1D
2021010105	001	MI-1E
2021010106	001	MI-1F
2021010107	001	MI-1H
2021010201	001	MI-2A
2021010202	001	MI-2B
2021010203	001	MI-2C
2021010204	001	MI-2D
2021010205	001	MI-2E
2021010206	001	MI-2F
2021010301	001	MI-3A
2021010302	001	MI-3B
2021010303	001	MI-3C
2021010304	001	MI-3D
2021010305	001	MI-3E
2021010306	001	MI-3F
2021020101	002	TI-1A
2021020102	002	TI-1B
2021020103	002	TI-1C
2021020104	002	TI-1D
2021020105	002	TI-1E

SELECT * FROM ruang;

```
2
3 • select * from jadwal;
4 • select * from prodi;
5 • select * from kelas;
6 • select * from ruang;
```

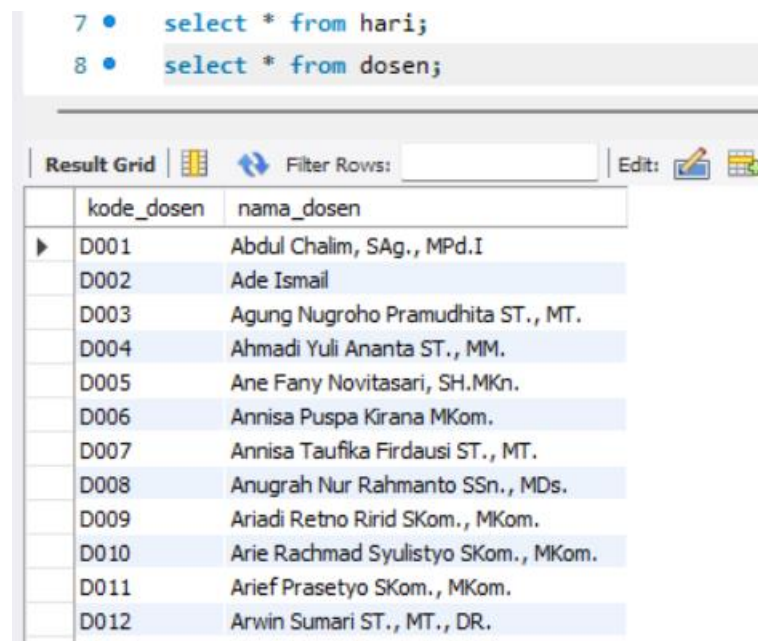
	kode_ruang	nama_ruang	deskripsi_ruang
▶	0501	RT01	Ruang Teori 1
	0502	RT02	Ruang Teori 2
	0503	RT03	Ruang Teori 3
	0504	RT04	Ruang Teori 4
	0505	RT05	Ruang Teori 5
	0506	RT06	Ruang Teori 6
	0507	RT07	Ruang Teori 7
	0508	LPY1	Laboratorium Proyek 1
	0615	LSI1	Laboratorium Sistem Informasi 1
	0617	LSI2	Laboratorium Sistem Informasi 2
	0618	LSI3	Laboratorium Sistem Informasi 3
	0619	LPY2	Laboratorium Proyek 2
	0620	LPY3	Laboratorium Proyek 3
	0701	LPR1	Laboratorium Pemrograman 1
	0702	LPR2	Laboratorium Pemrograman 2
	0703	LPR3	Laboratorium Pemrograman 3
	0704	LPR4	Laboratorium Pemrograman 4
	0705	LPR5	Laboratorium Pemrograman 5
	0706	LPR6	Laboratorium Pemrograman 6
	0707	LKJ1	Laboratorium Keamanan Jaring...

SELECT * FROM hari;

```
5 • select * from kelas;
6 • select * from ruang;
7 • select * from hari;
```

	kode_hari	nama_hari
▶	001	Senin
	002	Selasa
	003	Rabu
	004	Kamis
	005	Jumat
	006	Sabtu
	007	Minggu
*	NULL	NULL

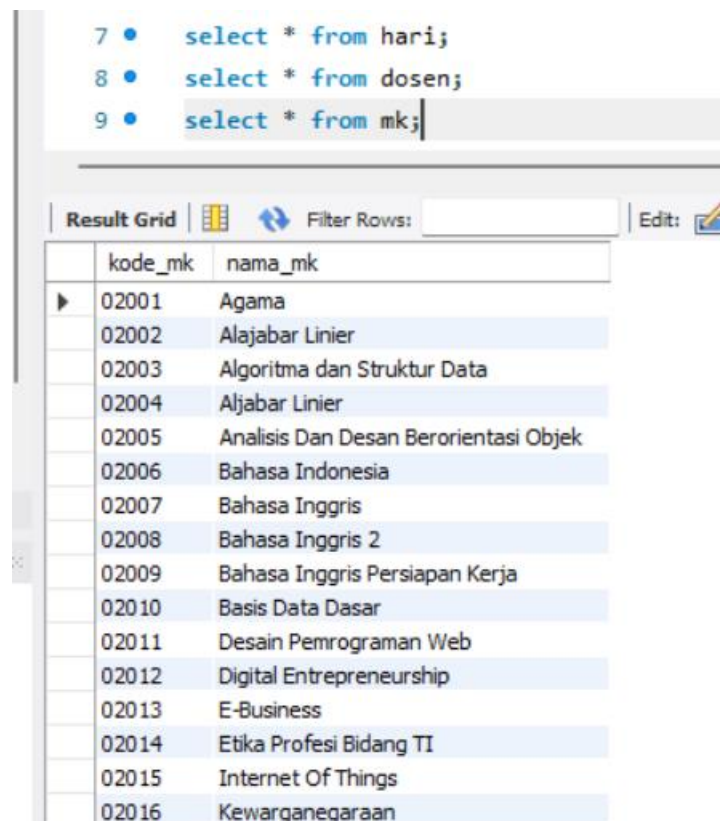
SELECT * FROM dosen;



The screenshot shows a database query interface. At the top, two SQL queries are listed: '7 • select * from hari;' and '8 • select * from dosen;'. Below the queries, there is a toolbar with 'Result Grid', 'Filter Rows', and 'Edit' buttons. The 'Result Grid' is active, displaying a table with two columns: 'kode_dosen' and 'nama_dosen'. The table contains 12 rows of data, each representing a faculty member.

kode_dosen	nama_dosen
D001	Abdul Chalim, SAg., MPd.I
D002	Ade Ismail
D003	Agung Nugroho Pramudhita ST., MT.
D004	Ahmadi Yuli Ananta ST., MM.
D005	Ane Fany Novitasari, SH.MKn.
D006	Annisa Puspa Kirana MKom.
D007	Annisa Taufika Firdausi ST., MT.
D008	Anugrah Nur Rahmanto SSn., MDs.
D009	Ariadi Retno Ririd SKom., MKom.
D010	Arie Rachmad Syulistyo SKom., MKom.
D011	Arief Prasetyo SKom., MKom.
D012	Arwin Sumari ST., MT., DR.

SELECT * FROM mk;





The screenshot shows a database query interface. At the top, three SQL queries are listed: '7 • select * from hari;', '8 • select * from dosen;', and '9 • select * from mk;'. Below the queries, there is a toolbar with 'Result Grid', 'Filter Rows', and 'Edit' buttons. The 'Result Grid' is active, displaying a table with two columns: 'kode_mk' and 'nama_mk'. The table contains 16 rows of data, each representing a course.

kode_mk	nama_mk
02001	Agama
02002	Aljabar Linier
02003	Algoritma dan Struktur Data
02004	Aljabar Linier
02005	Analisis Dan Desain Berorientasi Objek
02006	Bahasa Indonesia
02007	Bahasa Inggris
02008	Bahasa Inggris 2
02009	Bahasa Inggris Persiapan Kerja
02010	Basis Data Dasar
02011	Desain Pemrograman Web
02012	Digital Entrepreneurship
02013	E-Business
02014	Etika Profesi Bidang TI
02015	Internet Of Things
02016	Kewarganegaraan

SELECT * FROM jp;

```
1 select * from nar1;
8 select * from dosen;
9 select * from mk;
10 select * from jp;
```

Result Grid   Filter Rows:

	kode_jp	jp_mulai	jp_selesai
▶	1	07:00:00	07:50:00
	2	07:50:00	08:40:00
	3	08:40:00	09:30:00
	4	09:40:00	10:30:00
	5	10:30:00	11:20:00
	6	11:20:00	12:10:00
	7	12:50:00	13:40:00
	8	13:40:00	14:30:00
	9	14:30:00	15:20:00
	10	15:30:00	15:30:00
	11	16:20:00	17:10:00
	12	17:10:00	18:00:00
•	NULL	NULL	NULL

Praktikum bagian 2

```
12 • select deskripsi_ruang
13 from ruang
14 where nama_ruang = 'LKJ1';
```

Result Grid   Filter Rows:




	deskripsi_ruang
▶	Laboratorium Keamanan Jaringan 1

```
16 • select distinct kode_hari
17 from jadwal;
```

Result Grid   Filter Rows:

	kode_hari
▶	001
	002
	003
	004
	005

```
19 • select * from ruang
20 where nama_ruang in ('RT01', 'RT10');
```

Result Grid   Filter Rows: Edit: 

	kode_ruang	nama_ruang	deskripsi_ruang
▶	0501	RT01	Ruang Teori 1
	0806	RT10	Ruang Teori 10
*	NULL	NULL	NULL

```

22 • select * from ruang
23 where kode_ruang
24 between '0501' and '0508';

```

Result Grid   Filter Rows: Edit:

	kode_ruang	nama_ruang	deskripsi_ruang
▶	0501	RT01	Ruang Teori 1
	0502	RT02	Ruang Teori 2
	0503	RT03	Ruang Teori 3
	0504	RT04	Ruang Teori 4
	0505	RT05	Ruang Teori 5
	0506	RT06	Ruang Teori 6
	0507	RT07	Ruang Teori 7
	0508	LPY1	Laboratorium Proyek 1
•	NULL	NULL	NULL

```

26 • select * from dosen
27 where nama_dosen like 'E%';

```

Result Grid   Filter Rows: Edit:

	kode_dosen	nama_dosen
▶	D028	Eka Larasati Amalia, SST., MT.
	D029	Ekojono, ST., M.Kom.
	D030	Elok Nur Hamdana, ST., MT
	D031	Erfan Rohadi, ST., MEng., PhD.
•	NULL	NULL

```

28
29 • select kode_dosen, kode_mk, kode_ruang, kode_hari
30 from jadwal
31 group by kode_hari;
32

```

Result Grid   Filter Rows: Export:  Wrap Cell Co

	kode_dosen	kode_mk	kode_ruang	kode_hari
▶	D001	02001	0504	001
	D001	02001	0506	002
	D001	02001	0806	003
	D001	02001	0506	004
	D001	02001	0506	005


```

33 • select kode_jp, jp_mulai
34     from jp
35     order by jp_mulai;
36

```


Result Grid   Filter Rows:

	kode_jp	jp_mulai
▶	1	07:00:00
	2	07:50:00
	3	08:40:00
	4	09:40:00
	5	10:30:00
	6	11:20:00
	7	12:50:00
	8	13:40:00

```

36
37 • select * from jadwal
38     where kode_hari = '001' and jp_mulai =1;
39
40

```

Result Grid   Filter Rows:

Edit:    Export/Import:   Wrap

	kode_jadwal	kode_dosen	kode_kelas	kode_mk	kode_ruang	kode_hari	jp_mulai	jp_selesai
▶	17	D004	2021010106	02028	0704	001	1	3
	57	D012	2021020204	02018	0702	001	1	5
	75	D016	2021020103	02038	0506	001	1	3
	84	D018	2021020302	02039	0701	001	1	6
	91	D021	2021020207	02005	0615	001	1	6
	98	D023	2021010205	02023	0508	001	1	4
	103	D024	2021010201	02037	0713	001	1	6
	107	D025	2021020305	02024	0615	001	1	6
	147	D034	2021020108	02008	0502	001	1	3
	170	D039	2021010101	02040	0503	001	1	3
	171	D039	2021010102	02040	0503	001	1	3
	197	D045	2021020208	02037	0718	001	1	6

jadwal 4 ×


```

40 • select kode_hari
41     from hari
42     union
43     select kode_hari from jadwal;

```



Result Grid   Filter Rows:

	kode_hari
▶	001
	002
	003
	004
	005
	006
	007

```

40 • select kode_hari
41     from hari
42     union all
43     select kode_hari from jadwal;

```

Result Grid   Filter Rows:

	kode_hari
▶	001
	002
	003
	004
	005
	006
	007
	001
	001
	001
	001
	001
	...

Result 6 

```

45 • select kode_dosen, kode_mk, kode_hari, jp_mulai, jp_selesai
46 from jadwal
47 where jp_selesai in (select max(jp_selesai) from jadwal);

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	kode_dosen	kode_mk	kode_hari	jp_mulai	jp_selesai
▶	D001	02001	003	10	12
	D001	02001	005	10	12
	D002	02037	001	7	12
	D002	02025	004	7	12
	D004	02032	001	10	12
	D004	02034	002	7	12
	D006	02037	004	7	12
	D006	02037	005	7	12
	D007	02011	004	8	12
	D008	02012	005	9	12
	D008	02012	005	9	12
	D009	02005	003	7	12

jadwal 7 x

```

45 • select kode_dosen, kode_mk, kode_hari, jp_mulai, jp_selesai
46 from jadwal
47 where jp_selesai < all (select jp_selesai from jadwal where jp_selesai = 6);

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

	kode_dosen	kode_mk	kode_hari	jp_mulai	jp_selesai
▶	D001	02001	004	1	3
	D002	02036	003	2	4
	D003	02012	002	1	4
	D003	02012	002	1	4
	D003	02017	003	2	5
	D003	02017	003	2	5
	D003	02017	005	2	5
	D004	02028	001	1	3
	D007	02038	003	3	5
	D007	02038	003	3	5
	D008	02012	001	2	5
	D008	02036	003	2	4

jadwal 8 x

```



49 • select avg(jp_selesai-jp_mulai) from jadwal;

```

Result Grid | Filter Rows: | Export: | Wr



	avg(jp_selesai-jp_mulai)
▶	3.4000

50 • `select max(jp_mulai) from jadwal;`

Result Grid   Filter Rows: | Export



max(jp_mulai)
▶ 10

50 • `select min(jp_selesai) from jadwal;`

Result Grid   Filter Rows: | Export








min(jp_selesai)
▶ 3

52 • `select sum(jp_selesai-jp_mulai) from jadwal where kode_dosen = 'D001';`

Result Grid   Filter Rows: | Export:  | Wrap Cell Content: 

sum(jp_selesai-jp_mulai)
▶ 14

54 • `select * from jadwal where kode_dosen = 'D001';`

Result Grid   Filter Rows: | Edit:    | Export/Import:   | Wrap

	kode_jadwal	kode_dosen	kode_kelas	kode_mk	kode_ruang	kode_hari	jp_mulai	jp_selesai
▶	1	D001	2021020101	02001	0504	001	7	9
	2	D001	2021010103	02001	0506	002	9	11
	3	D001	2021010105	02001	0806	003	10	12
	4	D001	2021010102	02001	0506	004	1	3
	5	D001	2021010106	02001	0806	004	4	6
	6	D001	2021010101	02001	0506	004	7	9
	7	D001	2021010104	02001	0506	005	10	12
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

54 • `select * from jadwal where kode_dosen = 'D001';`

55 • `select count(kode_ruang) from ruang;`

Result Grid   Filter Rows: | Export:  | Wrap C

count(kode_ruang)
▶ 36

2. Menampilkan semua kolom jadwal pada hari kamis yang dimulai pada pukul 08:40.

```
60 • select * from jadwal where kode_hari = '004' and jp_mulai = '08:40:00';
```

	kode_jadwal	kode_dosen	kode_kelas	kode_mk	kode_ruang	kode_hari	jp_mulai	jp_selesai
▶	36	D007	2021010102	02011	0615	004	8	12
	55	D011	2021010204	02019	0716	004	8	12
	144	D032	D011 0105	02009	0717	004	8	10
	268	D061	2021020102	02004	0806	004	8	11
	271	D062	2021010104	02011	0703	004	8	12
	343	D080	2021010103	02031	0508	004	8	12
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3. Menampilkan jumlah dosen yang mengajar pada hari Selasa.

```
62 • select distinct kode_dosen
63   from jadwal
64   where kode_hari = '002';
```

	kode_dosen
▶	D001
	D003
	D004
	D007
	D009
	D010
	D011
	D012
	D013
	D015
	D021
	D025
	D028
	D031
	D032
	D034
	D035
	D036

jadwal 17 x

kode_dosen	
D036	
D038	
D039	
D041	
D043	
D047	
D048	
D049	
D052	
D054	
D059	
D061	
D062	
D063	
D064	
D068	
D069	
D070	
	D070
	D074
	D075
	D078
	D079
	D080
	D081
	D082
	D083
	D085

4. Tampilkan kode dosen yang mengajar pada hari kamis dari tabel jadwal yang nama depannya di awali dengan huruf A. gunakan operasi intersect! Tunjukkan sintaksis dan output dari pencarian tersebut.

```

66 • SELECT kode_dosen FROM jadwal WHERE kode_hari = (SELECT kode_hari FROM hari WHERE nama_hari = 'Kamis')
67 ✖ INTERSECT
68 SELECT kode_dosen from dosen WHERE nama_dosen LIKE 'A%';

```

kode_dosen
D001
D002
D004
D006
D007
D008
D011
D013

#	Time	Action	Message
31	17:21:39	SELECT kode_dosen FROM jadwal WHERE kode_hari = (SELECT kode_hari FROM hari WHERE nama_hari...	8 row(s) returned
32	17:21:55	SELECT kode_dosen FROM jadwal WHERE kode_hari = (SELECT kode_hari FROM hari WHERE nama_hari...	8 row(s) returned

5. Menampilkan kode_ruang tertentu pada hari tertentu dengan diurutkan berdasarkan dengan kode jam yang ter awal

```
70 • select kode_ruang, kode_hari, jp_mulai
71 from jadwal
72 where kode_hari = (select kode_hari from hari where nama_hari = 'Selasa') and kode_ruang = '0717'
73 order by jp_mulai;
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
	kode_ruang	kode_hari	jp_mulai
▶	0717	002	1
	0717	002	4
	0717	002	9