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## OUTPUT PRAKTIKUM 5

### 1. OUTPUT 1

The screenshot displays the MySQL Workbench interface. The SQL Editor contains the following query:

```
5 semester varchar (5) not null,  
6 nilai varchar (10) NULL);  
7  
8 • INSERT INTO KRSmhs (nim, kd_mk, kd_ds, semester, nilai)  
9 VALUE  
10 ("1823456", "MK001", "DS002", "3", "NULL"),  
11 ("1823456", "MK002", "DS002", "1", "NULL");  
12 • desc krsmhs;  
13 • select * from krsmhs;  
14 • select * from krsmhs join mhs, matakuliah, dosen
```

The Results Grid shows the output of the query, displaying columns: nim, kd\_mk, kd\_ds, semester, nilai, nim, nama, jk, tgl\_lahir, jalan, kota, kode\_pos, no\_hp, kd\_doser. The data is as follows:

nim	kd_mk	kd_ds	semester	nilai	nim	nama	jk	tgl_lahir	jalan	kota	kode_pos	no_hp	kd_doser
1823456	MK002	DS002	1	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK001	DS002	3	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK002	DS002	1	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK001	DS002	3	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK002	DS002	1	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK001	DS002	3	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK002	DS002	1	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK001	DS002	3	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK002	DS002	1	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK001	DS002	3	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1823456	MK002	DS002	1	NULL	1812345	Ari Susanto	L	1998-10-11	NULL	Bekasi	NULL	NULL	DS002

The interface also shows the Navigator pane on the left with a tree view of the database schema, including tables like krsmhs, mhs, matakuliah, and dosen. The bottom status bar indicates the current session and output.

## 2. OUTPUT 2

The screenshot displays the MySQL Workbench environment. On the left, the 'SCHEMAS' panel shows a tree view of the database structure, including tables like 'kd\_mk', 'kd\_ds', 'semester', and 'nilai', as well as indexes and foreign keys. The main area is divided into two panes. The top pane shows a SQL script with the following content:

```

1 semester varchar (5) not null,
2 nilai varchar (10) NULL);
3
4
5 • INSERT INTO KRSMhs (nim, kd_mk, kd_ds, semester, nilai)
6
7
8
9

```

The bottom pane shows the 'Result Grid' with a table of data. The table has columns: nim, kd\_mk, kd\_ds, semester, nilai, nim, nama, jk, tgl\_lahir, jalan, kota, kode\_pos, no\_hp, kd\_doser. The data is organized in rows, with the first row being a header and subsequent rows containing student information. The table is filtered to show 1000 rows.

On the right side of the interface, there is a 'SQLAdditions' panel with a text box containing the message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

At the bottom of the window, the 'Object Info' panel shows the 'Session' information, including the 'Read Only' status, 'Context Help' link, and 'Snippets' button.

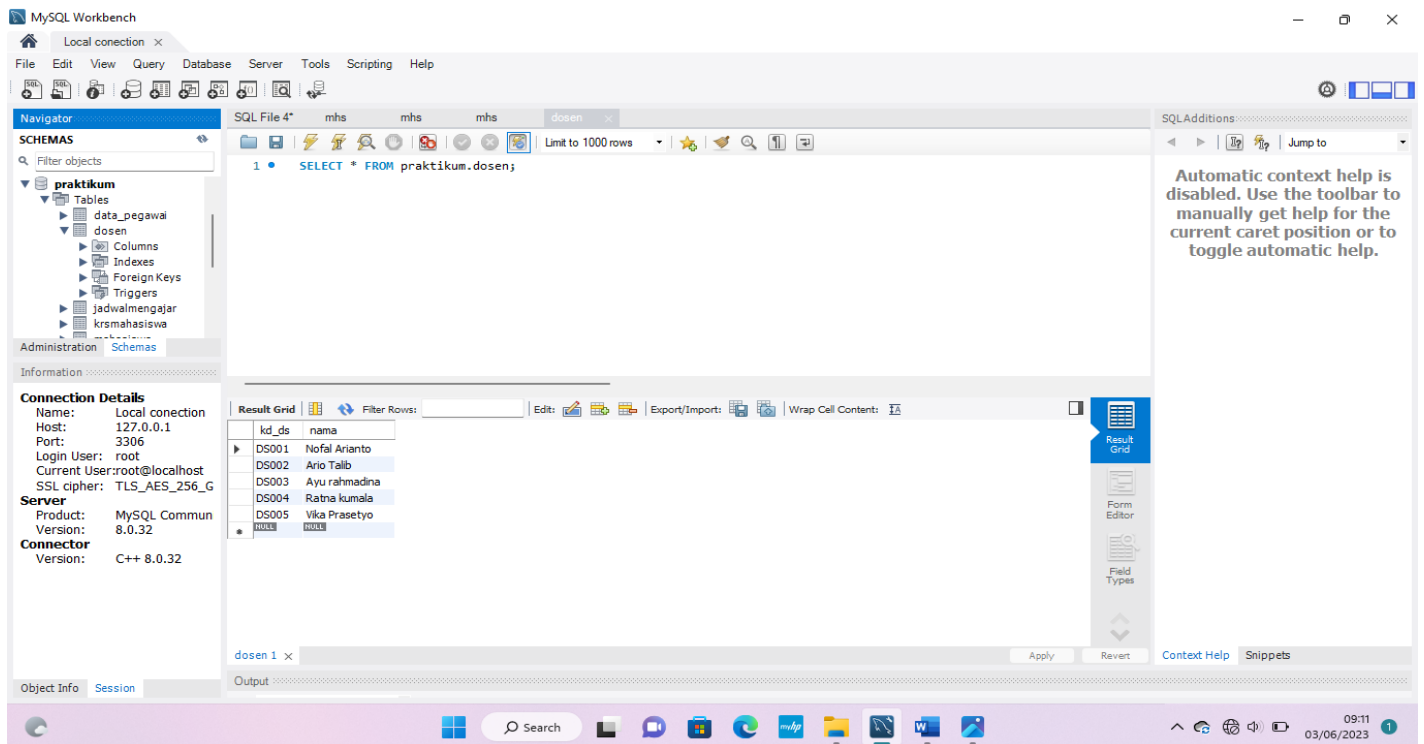
### 3. OUTPUT 3

The screenshot displays the MySQL Workbench application. The main window is titled 'MySQL Workbench' and shows a 'Local connection' to a database. The 'Navigator' pane on the left lists the database schema, including tables like 'mahasiswa', 'matakuliah', 'mhs', 'tabel\_hewan', 'Views', 'Stored Procedures', and 'Functions'. The 'mhs' table is selected. The 'SQL Editor' shows a query: `SELECT * FROM praktikum.mhs;`. The 'Result Grid' displays the data for the 'mhs' table, with columns: nim, nama, tgl\_lahir, jalan, kota, kode\_pos, no\_hp, kd\_dosen. The data is as follows:

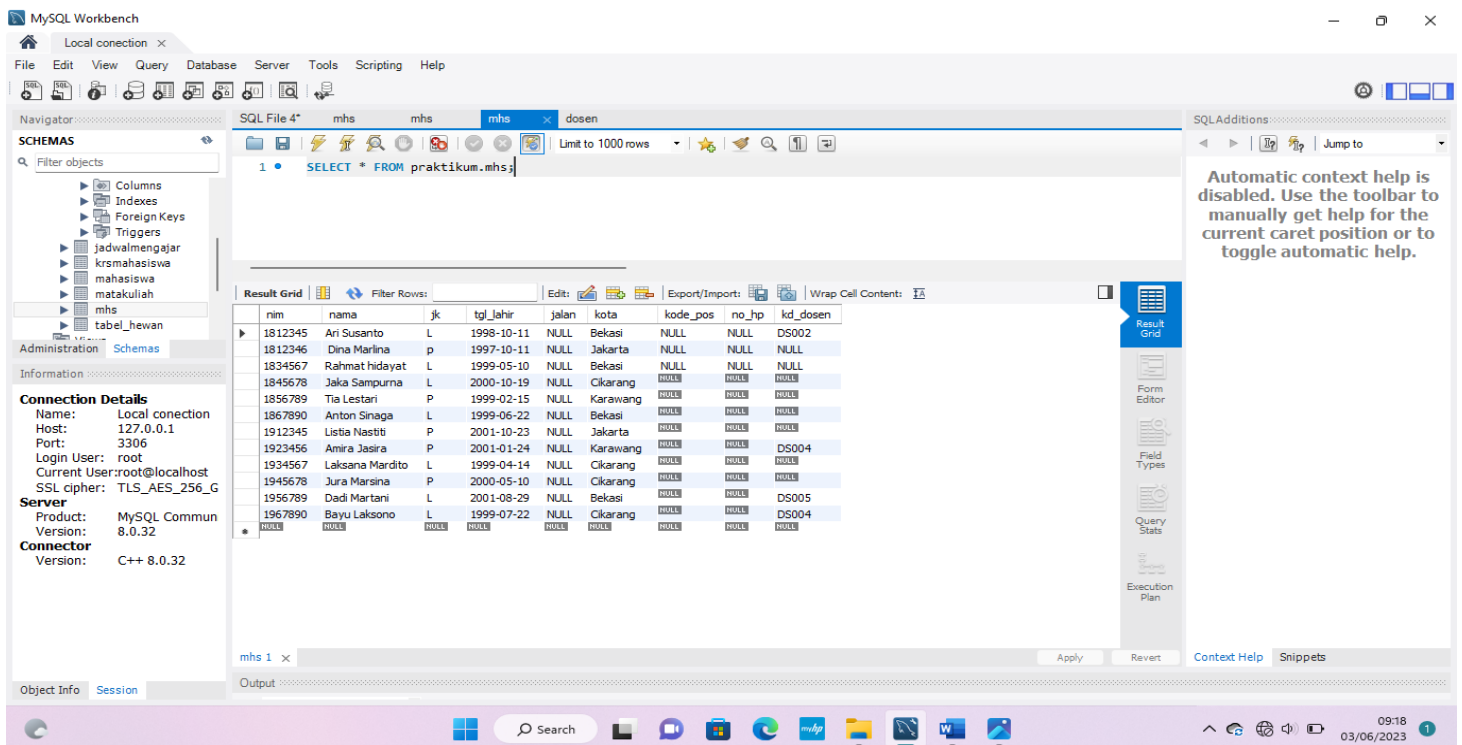
nim	nama	tgl_lahir	jalan	kota	kode_pos	no_hp	kd_dosen
1812345	Ari Susanto	L 1998-10-11	NULL	Bekasi	NULL	NULL	DS002
1812346	Dina Marlina	p 1997-10-11	NULL	Jakarta	NULL	NULL	NULL
1834567	Rahmat Hidayat	L 1999-05-10	NULL	Bekasi	NULL	NULL	NULL
1845678	Jaka Sampurna	L 2000-10-19	NULL	Cikarang	NULL	NULL	NULL
1856789	Tia Lestari	P 1999-02-15	NULL	Karawang	NULL	NULL	NULL
1867890	Anton Sinaga	L 1999-06-22	NULL	Bekasi	NULL	NULL	NULL
1912345	Lista Nastiti	P 2001-10-23	NULL	Jakarta	NULL	NULL	NULL
1923456	Amira Jasira	P 2001-01-24	NULL	Karawang	NULL	NULL	DS004
1934567	Laksana Mardito	L 1999-04-14	NULL	Cikarang	NULL	NULL	NULL
1945678	Jura Marsina	P 2000-05-10	NULL	Cikarang	NULL	NULL	NULL
1956789	Dadi Martani	L 2001-08-29	NULL	Bekasi	NULL	NULL	DS005
1967890	Bayu Laksono	L 1999-07-22	NULL	Cikarang	NULL	NULL	DS004
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

The interface also includes a 'Context Help' button on the right sidebar, which is currently disabled. The bottom status bar shows the date and time as 09:08 on 03/06/2023.

#### 4. OUTPUT 4



## 5. OUTPUT 5



## 6. OUTPUT 6

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'matakuliah' selected. The main query editor shows the query: `SELECT * FROM praktikum.matakuliah;`. The 'Result Grid' displays the following data:

kd_mk	nama	sks
MK001	Algoritma Dan Pemrograman	3
MK002	Praktikum Algoritma Dan Pemrograman	1
MK003	Teknologi Basis Data	3
MK004	Praktikum Teknologi Basis Data	1
MK005	Pemrograman Dasar	3
MK006	Pemrograman Berorientasi Objek	3
MK007	Struktur Data	3
MK008	Arsitektur Komputer	2
NULL	NULL	NULL

The bottom status bar shows the time as 09:23 on 03/06/2023.

## 7. OUTPUT 7

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'jadwalmengajar' selected. The main query editor shows the query: `SELECT * FROM praktikum.jadwalmengajar;`. The 'Result Grid' displays the following data:

kd_mk	kd_ds	hari	jam	ruang
MK001	DS002	Senin	10:00:00	102
MK002	DS002	Senin	13:00:00	Lab.01
MK003	DS001	Selasa	08:00:00	201
MK004	DS001	Rabu	10:00:00	Lab.02
MK005	DS003	Selasa	10:00:00	Lab.01
MK006	DS004	Kamis	09:00:00	Lab.03
MK007	DS005	Rabu	08:00:00	102
MK008	DS005	Kamis	13:00:00	201
NULL	NULL	NULL	NULL	NULL

The bottom status bar shows the time as 09:25 on 03/06/2023.

## 8. OUTPUT 8

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'mhs' selected. The main editor shows a query file with the following SQL code:

```
9 VALUE
10 ("1823456", "MK001", "DS002", "3", "NULL"),
11 ("1823456", "MK002", "DS002", "1", "NULL");
12 desc krsmhms;
13 select * from krsmhms;
```

The 'Result Grid' displays the output of the query:

nim	kd_mk	kd_ds	semester	nilai
1823456	MK001	DS002	3	NULL
1823456	MK002	DS002	1	NULL
1823456	MK003	DS002	3	NULL
1823456	MK004	DS002	3	NULL
1823456	MK007	DS002	3	NULL
1823456	MK008	DS002	3	NULL

The bottom status bar shows the connection details for 'Local connection' and the server version 'MySQL Commun 8.0.32'.

## 9. OUTPUT 9

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'praktikum' selected. The main editor shows a query file with the following SQL code:

```
12 desc krsmhms;
13 select * from krsmhms;
14
15 SELECT mhs.nim,mhs.nama,mhs.jk,dosen.nama
16 FROM mhs INNER JOIN dosen ON Dosen.kd_ds=mhs.kd_dosen;
```

The 'Result Grid' displays the output of the query:

nim	nama	jk	nama
1812345	Ari Susanto	L	Ario Talib
1923456	Amira Jasira	P	Ratna kumala
1956789	Dadi Martani	L	Vika Prasetyo
1967890	Bayu Laksono	L	Ratna kumala

The bottom status bar shows the connection details for 'Local connection' and the server version 'MySQL Commun 8.0.32'.

## 10. OUTPUT 10

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'praktikum' selected. The main editor shows a query in 'SQL File 7' with the following SQL code:

```
15 SELECT mhs.nim,mhs.nama,mhs.jk,dosen.nama
16 FROM mhs INNER JOIN dosen ON Dosen.kd_ds=mhs.kd_dosen;
17
18 SELECT mhs.nim,mhs.nama,mhs.jk,dosen.nama
19 FROM mhs LEFT JOIN dosen ON Dosen.kd_ds=mhs.kd_dosen;
```

The 'Result Grid' displays the output of the first query (INNER JOIN). The table has four columns: 'nim', 'nama', 'jk', and 'nama'. The data rows are as follows:

nim	nama	jk	nama
1812345	Ari Susanto	L	Ario Talib
1812346	Dina Marlina	P	NULL
1834567	Rahmat Hidayat	L	NULL
1845678	Jaka Sampurna	L	NULL
1856789	Tia Lestari	P	NULL
1867890	Anton Sinaga	L	NULL
1912345	Listia Nastiti	P	NULL
1923456	Amira Jasira	P	Ratna Kumala
1934567	Laksana Mardito	L	NULL
1945678	Jura Marsina	P	NULL
1956789	Dadi Martani	L	Vika Prasetyo
1967890	Bayu Laksono	L	Ratna Kumala

The right sidebar contains a 'SQL Additions' panel with a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

## 11. OUTPUT 11

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'praktikum' selected. The main editor shows a query in 'SQL File 7' with the following SQL code:

```
25
26 SELECT Matakuliah.kd_mk, Matakuliah.nama, Matakuliah.sks, Dosen.nama AS "Dosen Pengampu", JadwalMengajar.hari, Jadw
27 FROM JadwalMengajar
28 JOIN Dosen ON JadwalMengajar.kd_mk = Dosen.kd_ds
29 JOIN Matakuliah ON JadwalMengajar.kd_mk = Matakuliah.kd_mk;
```

The 'Result Grid' displays the output of the query. The table has six columns: 'kd\_mk', 'nama', 'sks', 'Dosen Pengampu', 'hari', and 'jam'. The data rows are as follows:

kd_mk	nama	sks	Dosen Pengampu	hari	jam
			Pengampu		

The right sidebar contains a 'SQL Additions' panel with a message: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'