```
Microsoft Windows [Version 10.0.19044.2728]

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C:\Users\U53R>cd/
```

C:\xampp>cd mysql

C:\>cd xampp

C:\xampp\mysql>cd bin

C:\xampp\mysql\bin>mysql -uroot

Welcome to the MariaDB monitor. Commands end with ; or \gray{g} .

Your MariaDB connection id is 14

Server version: 10.4.20-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [(none)]> create database latihan2 ganjil;
Query OK, 1 row affected (0.003 sec)
MariaDB [(none)]> use latihan2 ganjil;
Database changed
MariaDB [latihan2 ganjil]> create table mhs(
   -> nim char(9) primary key,
   -> nama varchar(50),
   -> jurusan varchar(30),
   -> ipk double,
   -> konsentrasi varchar(30));
Query OK, 0 rows affected (0.028 sec)
MariaDB [latihan2 ganjil]> desc mhs;
+----+
| Field
       | Type | Null | Key | Default | Extra |
+----+
         | char(9) | NO | PRI | NULL
| nim
```

```
nama
              | varchar(50) | YES |
                                        NULL
| jurusan
              | varchar(30) | YES |
                                        NULL
| ipk
              | double
                           | YES |
                                        NULL
| konsentrasi | varchar(30) | YES |
                                        NULL
+----+
5 rows in set (0.010 \text{ sec})
MariaDB [latihan2 ganjil] > insert into mhs values
    -> ('E1E122001','Ade Sulastri','Teknik Informatika',4.00,'RPL'),
    -> ('E1E122027','Rahmi','Teknik Informatika',4.00,'RPL'),
    -> ('E1E122087', 'Aqusriyati', 'Teknik Informatika', 4.00, 'RPL'),
    -> ('E1E122005', 'Artientin', 'Teknik Informatika', 4.00, 'KBJ'),
    -> ('E1E122017', 'Laode Ikhwanul Uzlah', 'Teknik Informatika', 4.00, 'KBJ'),
    -> ('E1E122141', 'Sitti Rahmayani Ose', 'Teknik Informatika', 4.00, 'KBJ'),
    -> ('E1E122137', 'Reksa Leo Saputra', 'Teknik Informatika', 4.00, 'KCV'),
    -> ('E1E122065', 'Muh. Afdal Zigri Ramadhan', 'Teknik Informatika', 4.00, 'KCV'),
    -> ('E1E122123', 'Muhammad Saharullah Raiya', 'Teknik Informatika', 4.00, 'KCV'),
    -> ('E1E122033','Usrianto','Teknik Informatika',4.00,'RPL'),
    -> ('E1E122061','Jumain Zulkaidah','Teknik Informatika',4.00,'RPL');
```

Query OK, 11 rows affected (0.016 sec)

Records: 11 Duplicates: 0 Warnings: 0

MariaDB [latihan2_ganjil]> select * from mhs;

+ <u>+</u>		 	+ <u>-</u> -	+ <u></u>
nim	nama			
	Ade Sulastri			
E1E122005	Artientin	Teknik Informatika	4	KBJ
E1E122017	Laode Ikhwanul Uzlah	Teknik Informatika	4	KBJ
E1E122027	Rahmi	Teknik Informatika	4	RPL
E1E122033	Usrianto	Teknik Informatika	4	RPL
E1E122061	Jumain Zulkaidah	Teknik Informatika	4	RPL
E1E122065	Muh. Afdal Ziqri Ramadhan	Teknik Informatika	4	KCV
E1E122087	Agusriyati	Teknik Informatika	4	RPL
E1E122123	Muhammad Saharullah Raiya	Teknik Informatika	4	KCV
E1E122137	Reksa Leo Saputra	Teknik Informatika	4	KCV
E1E122141	Sitti Rahmayani Ose	Teknik Informatika	4	KBJ
++		+	+	+

```
11 rows in set (0.002 sec)
MariaDB [latihan2 ganjil]> select nim from mhs;
+----+
| nim
+----+
| E1E122001 |
| E1E122005 |
| E1E122017 |
| E1E122027 |
| E1E122033 |
| E1E122061 |
| E1E122065 |
| E1E122087 |
| E1E122123 |
| E1E122137 |
| E1E122141 |
+----+
11 rows in set (0.002 sec)
```

```
MariaDB [latihan2 ganjil]> select nama from mhs;
+----+
nama
| Ade Sulastri
| Artientin
| Laode Ikhwanul Uzlah
| Rahmi
| Usrianto
| Jumain Zulkaidah
| Muh. Afdal Ziqri Ramadhan |
| Agusriyati
| Muhammad Saharullah Raiya |
| Reksa Leo Saputra
| Sitti Rahmayani Ose
+----+
```

11 rows in set (0.001 sec)

```
MariaDB [latihan2_ganjil]> select jurusan from mhs;
| jurusan
+----+
| Teknik Informatika |
+----+
11 rows in set (0.001 sec)
```

MariaDB [latihan2 ganjil]> select ipk from mhs;

```
| ipk |
11 rows in set (0.001 sec)
MariaDB [latihan2 ganjil]> select konsentrasi from mhs;
+----+
```

```
| konsentrasi |
| RPL
| KBJ
| KBJ
| RPL
| RPL
| RPL
| KCV
| RPL
| KCV
| KCV
| KBJ
11 rows in set (0.001 sec)
MariaDB [latihan2 ganjil]> select nim, nama, jurusan from mhs;
                                          | jurusan
| nim
            | nama
```

```
| E1E122001 | Ade Sulastri
                       | Teknik Informatika |
| E1E122005 | Artientin | Teknik Informatika |
| E1E122017 | Laode Ikhwanul Uzlah | Teknik Informatika |
                           | Teknik Informatika |
| E1E122027 | Rahmi
                            | Teknik Informatika |
| E1E122033 | Usrianto
| E1E122061 | Jumain Zulkaidah | Teknik Informatika |
| E1E122065 | Muh. Afdal Zigri Ramadhan | Teknik Informatika |
| E1E122087 | Agusriyati
                     | Teknik Informatika |
| E1E122123 | Muhammad Saharullah Raiya | Teknik Informatika |
| E1E122137 | Reksa Leo Saputra | Teknik Informatika |
| E1E122141 | Sitti Rahmayani Ose | Teknik Informatika |
+----+
11 rows in set (0.001 sec)
MariaDB [latihan2 ganjil] > select nim, nama, konsentrasi from mhs;
+----+
l nim
         l nama
                              | konsentrasi |
+----+
```

```
| E1E122001 | Ade Sulastri
                              | RPL
| E1E122005 | Artientin
                              | KBJ
| E1E122017 | Laode Ikhwanul Uzlah | KBJ
| E1E122027 | Rahmi
                               | RPL
| E1E122033 | Usrianto
                              | RPL
| E1E122061 | Jumain Zulkaidah
                              | RPL
| E1E122065 | Muh. Afdal Zigri Ramadhan | KCV
| E1E122087 | Aqusriyati
                               | RPL
| E1E122123 | Muhammad Saharullah Raiya | KCV
| E1E122137 | Reksa Leo Saputra | KCV
| E1E122141 | Sitti Rahmayani Ose | KBJ
+----+
11 rows in set (0.001 sec)
MariaDB [latihan2 ganjil]> select nim, nama, ipk from mhs;
| nim | nama
                              +-----+
| E1E122001 | Ade Sulastri
```

```
| E1E122005 | Artientin
                                   4 |
                                    4 |
| E1E122017 | Laode Ikhwanul Uzlah
| E1E122027 | Rahmi
                                    4 |
| E1E122033 | Usrianto
| E1E122061 | Jumain Zulkaidah
| E1E122065 | Muh. Afdal Zigri Ramadhan |
| E1E122087 | Agusriyati
| E1E122123 | Muhammad Saharullah Raiya |
                                    4 |
| E1E122137 | Reksa Leo Saputra
| E1E122141 | Sitti Rahmayani Ose
                                    4 |
+----+
11 rows in set (0.001 sec)
MariaDB [latihan2 ganjil] > select min(nama), konsentrasi from mhs;
+----+
           | konsentrasi |
| min(nama)
+----+
| Ade Sulastri | RPL
+----+
```

```
MariaDB [latihan2 ganjil] > select max(nama), konsentrasi from mhs;
+----+
| max(nama) | konsentrasi |
+----+
| Usrianto | RPL |
+-----
1 row in set (0.001 sec)
MariaDB [latihan2 ganjil] > select nim, nama from mhs where konsentrasi='RPL';
+----+
| nim | nama
+----+
| E1E122001 | Ade Sulastri
| E1E122027 | Rahmi
| E1E122033 | Usrianto
| E1E122061 | Jumain Zulkaidah |
| E1E122087 | Agusriyati
```

1 row in set (0.019 sec)

```
5 rows in set (0.005 sec)
MariaDB [latihan2 ganjil] > select nim, nama from mhs where konsentrasi='KBJ';
+----+
| nim
          nama
+----+
| E1E122005 | Artientin
| E1E122017 | Laode Ikhwanul Uzlah |
| E1E122141 | Sitti Rahmayani Ose |
+----+
3 \text{ rows in set } (0.001 \text{ sec})
MariaDB [latihan2 ganjil] > select nim, nama from mhs where konsentrasi='KCV';
| nim
          nama
+-----
| E1E122065 | Muh. Afdal Zigri Ramadhan |
| E1E122123 | Muhammad Saharullah Raiya |
```

```
| E1E122137 | Reksa Leo Saputra
3 \text{ rows in set } (0.001 \text{ sec})
MariaDB [latihan2 ganjil] > select nim, nama, ipk from mhs where nama like 'A%';
+----+
+-----+
| E1E122001 | Ade Sulastri | 4 |
| E1E122087 | Agusriyati | 4 |
+----+
3 rows in set (0.006 \text{ sec})
MariaDB [latihan2 ganjil] > select nim, nama, ipk from mhs where nama like '%a';
+----+
                          | ipk |
| nim | nama
+----+
| E1E122123 | Muhammad Saharullah Raiya | 4 |
```

```
| E1E122137 | Reksa Leo Saputra | 4 |
2 rows in set (0.002 sec)
MariaDB [latihan2 ganjil] > select nim, nama, ipk from mhs where nama like '%a%';
| nim | nama
| E1E122005 | Artientin
                                   4 |
| E1E122017 | Laode Ikhwanul Uzlah |
                                  4 |
| E1E122027 | Rahmi
                                    4 |
| E1E122033 | Usrianto
                                   4 |
| E1E122061 | Jumain Zulkaidah |
                                    4 |
| E1E122065 | Muh. Afdal Ziqri Ramadhan |
                                    4 |
| E1E122087 | Agusriyati |
                                    4 |
| E1E122123 | Muhammad Saharullah Raiya |
                                    4 |
| E1E122137 | Reksa Leo Saputra |
                                    4 |
| E1E122141 | Sitti Rahmayani Ose |
                                    4 |
```

```
11 rows in set (0.001 sec)
MariaDB [latihan2 ganjil] > select nim, nama, ipk from mhs where nama like '%x%';
Empty set (0.002 \text{ sec})
MariaDB [latihan2 ganjil]> select * from mhs where nama='Uzlah';
Empty set (0.002 sec)
MariaDB [latihan2 ganjil] > select * from mhs where nama='Usrianto';
<del>+-----</del>
                | jurusan
                              | ipk | konsentrasi |
| nim
        nama
| E1E122033 | Usrianto | Teknik Informatika | 4 | RPL
+----+
1 row in set (0.001 sec)
MariaDB [latihan2 ganjil]> select * from mhs limit 3,3;
+----+
```

nim	nama	jurusan		ipk	konsent	rasi	
+		+		++		+	
E1E122027	Rahmi	Teknik	Informatika	4	RPL	1	
E1E122033	Usrianto	Teknik	Informatika	4	RPL	1	
E1E122061	Jumain Zulkaidah	Teknik	Informatika	4	RPL	1	
++		+		++		+	
3 rows in set	(0.018 sec)						
MariaDB [lati	.han2_ganjil]> sele	ct * from	mhs limit 2	2,9;			
	.han2_ganjil]> seled				-+	+	-+
			+			+ konsentrasi	
+			+ jurusan		ipk	konsentrasi	.
+	nama		+ jurusan +		ipk -+	konsentrasi	.
+	nama Laode Ikhwanul Uz		+ jurusan +	ormatika	ipk -+	konsentrasi +	.
+	nama Laode Ikhwanul Uz	lah	+ jurusan + Teknik Inf	ormatika	ipk -+ 4 4	konsentrasi 	.
+	nama Laode Ikhwanul Uz	lah	+ jurusan + Teknik Inf Teknik Inf Teknik Inf	ormatika formatika	ipk -+ 4 4	konsentrasi 	.
+	nama Laode Ikhwanul Uz Rahmi Usrianto	lah	+ jurusan + Teknik Inf Teknik Inf Teknik Inf	formatika formatika formatika	ipk 4 4 4	konsentrasi	.

4 | KCV

| E1E122123 | Muhammad Saharullah Raiya | Teknik Informatika |

```
| E1E122137 | Reksa Leo Saputra | Teknik Informatika | 4 | KCV
| E1E122141 | Sitti Rahmayani Ose | Teknik Informatika | 4 | KBJ
+----+
9 rows in set (0.002 sec)
MariaDB [latihan2 ganjil] > select konsentrasi from mhs where nama like 'a%';
+----+
| konsentrasi |
+----+
| RPL
| KBJ
| RPL
+----+
3 rows in set (0.003 \text{ sec})
MariaDB [latihan2 ganjil] > select * from mhs where ipk > 3.0 order by ipk;
+----+
                         | jurusan
                                  | ipk | konsentrasi |
| nim
       nama
+----+
```

```
| E1E122001 | Ade Sulastri | Teknik Informatika |
                                                        4 | RPL
| E1E122137 | Reksa Leo Saputra | Teknik Informatika |
                                                        4 | KCV
| E1E122123 | Muhammad Saharullah Raiya | Teknik Informatika |
                                                        4 | KCV
| E1E122087 | Agusriyati
                                 | Teknik Informatika |
                                                        4 | RPL
| E1E122065 | Muh. Afdal Zigri Ramadhan | Teknik Informatika |
                                                        4 | KCV
| E1E122061 | Jumain Zulkaidah | Teknik Informatika |
                                                        4 | RPL
| E1E122033 | Usrianto | Teknik Informatika |
                                                        4 | RPL
| E1E122027 | Rahmi
                               | Teknik Informatika |
                                                        4 | RPL
| E1E122017 | Laode Ikhwanul Uzlah | Teknik Informatika | 4 | KBJ
| E1E122005 | Artientin
                        | Teknik Informatika | 4 | KBJ
| E1E122141 | Sitti Rahmayani Ose | Teknik Informatika | 4 | KBJ
```

11 rows in set (0.008 sec)

MariaDB [latihan2 ganjil]>