

1

The screenshot shows a database management interface with the following details:

- Schemas:** homework\_db
- Tables:** Matks, Student
- Query 1:** SELECT \* FROM Student;
- Result Grid:**

| # | idStudent | Surname | Name    | Address            | Tel     |
|---|-----------|---------|---------|--------------------|---------|
| 1 | 1         | Иванов  | Иван    | ул. Ленина, д.78   | 2345722 |
| 2 | 2         | Петров  | Петр    | ул. Мира, д.10     | NULL    |
| 3 | 3         | Сидоров | Сидор   | ул. Гагарина, д.78 | 7542235 |
| 4 | 4         | Авдеев  | Алексей | ул. Новая, 5       | 2233445 |
| 5 | 5         | Яковлев | Яков    | ул. Ленина, 12     | 1234567 |
| * | HULL      | NULL    | NULL    | NULL               | NULL    |
- Object Info:** Table: Matks

2

The screenshot shows the MySQL Workbench interface. On the left, the Schemas tree displays the 'homework\_db' schema with its tables ('Matks' and 'Student'). The 'Matks' table is currently selected, showing its columns ('Surname' and 'Tel'). A query window titled 'Query 1' contains the SQL command: 'SELECT Surname, Tel FROM Student;'. The results grid shows the following data:

| # | Surname | Tel     |
|---|---------|---------|
| 1 | Иванов  | 2345722 |
| 2 | Петров  | NULL    |
| 3 | Сидоров | 7542235 |
| 4 | Андреев | 2233445 |
| 5 | Яковлев | 1234567 |

The bottom navigation bar includes tabs for 'Object Info' (selected) and 'Session', and a status message 'Table: Matks'.

3

The screenshot shows the MySQL Workbench interface. On the left, the Schemas tree displays the 'homework\_db' schema with its tables ('Matks' and 'Student'). The 'Matks' table is currently selected. The main area shows a query editor with the SQL command: `1 • SELECT * FROM Student WHERE Tel IS NULL;`. Below the query is a result grid titled 'Result Grid' with the following data:

| # | idStudent | Surname | Name | Address        | Tel  |
|---|-----------|---------|------|----------------|------|
| 1 | 2         | Петров  | Петр | ул. Мира, д.10 | NULL |
| . | .         |         |      |                |      |

At the bottom left, the status bar shows 'Object Info' and 'Session'. The status bar also indicates the current table is 'Matks'.

4

The screenshot shows a database management interface with a left sidebar for navigating schemas and objects, and a main area for running queries and viewing results.

**Schemas:**

- homework\_db
  - Tables
    - Matks
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - Student
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - Views
  - Stored Procedures
  - Functions
- sys

**Object Info:** Table: Matks

**Query 1:**

```
1 • Mark FROM Student s JOIN Matks m ON s.idStudent = m.Student_idStudent;
```

**Result Grid:**

| # | Surname | Subject    | Mark |
|---|---------|------------|------|
| 1 | Иванов  | Математика | 2    |
| 2 | Петров  | Математика | 4    |
| 3 | Иванов  | Физика     | 5    |

**Right Panel Buttons:**

- Result Grid
- Form Editor
- Field Types
- Query Stats

5

The screenshot shows the MySQL Workbench interface. On the left, the Schemas tree displays the 'homework\_db' schema with its tables ('Matks' and 'Student'). The 'Matks' table is selected. The main area contains a query editor titled 'Query 1' with the following SQL code:

```
1 •  SELECT * FROM Student s
2   JOIN Matks m ON s.idStudent = m.Student_idStudent
3   WHERE m.`Subject` = 'Математика' AND m.Mark = 2
4 ;
```

The results grid below shows one row of data:

| # | idStudent | Surname | Name | Address          | Tel     | idMatks | Subject    | Date_mark  | Mark |
|---|-----------|---------|------|------------------|---------|---------|------------|------------|------|
| 1 | 1         | Иванов  | Иван | ул. Ленина, д.78 | 2345722 | 101     | Математика | 2023-10-01 | 2    |

The bottom right panel shows icons for 'Object Info', 'Session', 'Table: Matks', 'Form Editor', 'Field Types', and 'Query Stats'. The 'Table: Matks' icon is highlighted.

6

The screenshot shows a database management interface with the following details:

- Schemas:** A sidebar on the left lists the schema structure:
  - homework\_db**:
    - Tables**: Matks (with Columns, Indexes, Foreign Keys, Triggers)
    - Student** (with Columns, Indexes, Foreign Keys, Triggers)
  - Views**
  - Stored Procedures**
  - Functions**
  - sys**
- Query 1:** The main area contains a query window titled "Query 1". It displays the following SQL code:

```
1 •  SELECT CONCAT(Surname, ' ', LEFT(`Name`, 1), '.')
2   FROM Student
3 WHERE Surname LIKE 'A%' AND Surname LIKE '%B%';
```
- Results:** Below the query window, the results are shown in a grid:

| # | CONCAT(Surname, ' ', LEFT('Name')) |
|---|------------------------------------|
| 1 | Авдеев А.                          |
- Toolbars and Buttons:** Various toolbar icons are visible at the top of the interface, including file operations, search, and refresh.
- Right Panel:** A vertical panel on the right contains icons for different features: Result Grid, Form Editor, Field Types, and Query Stats.

7

The screenshot shows the MySQL Workbench interface. On the left, the Schemas tree view displays the database structure. The 'homework\_db' schema is selected, showing tables like 'Matks' and 'Student'. The 'Matks' table has columns 'Surname' and 'Tel'. A query window titled 'Query 1' contains the following SQL code:

```
1 SELECT Surname, Tel
2 FROM Student
3 WHERE Tel REGEXP '^[2-57]+$';
```

The results grid below the query window shows the following data:

| # | Surname | Tel     |
|---|---------|---------|
| 1 | Иванов  | 2345722 |
| 2 | Сидоров | 7542235 |
| 3 | Андреев | 2233445 |

The right side of the interface includes various toolbars and panels for object info, session, and other database management functions.

The screenshot shows a database management interface with a dark theme. On the left is a sidebar titled 'Schemas' containing a tree view of database objects. Under 'homework\_db', there are 'Tables' (Matks, Student), 'Views', 'Stored Procedures', and 'Functions'. Under 'sys', there is an 'Object Info' tab which is currently selected, showing details for the 'Matks' table.

The main area is titled 'Query 1' and contains the following SQL code:

```
1 • SELECT Surname
2 FROM Student
3 WHERE Address LIKE '%д. 78%';
```

Below the code, the 'Result Grid' displays the query results:

| # | Surname |
|---|---------|
| 1 | Иванов  |
| 2 | Сидоров |

On the right side of the interface, there is a vertical toolbar with icons for 'Form Editor', 'Field Types', and 'Query Stats'.

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Schemas >

**homework\_db**

- Tables
  - Matks
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
- Student
- Views
- Stored Procedures
- Functions

sys

Object Info Session

Table: Matks

Query 1

1 • **SELECT \***  
2 **FROM Student**  
3 **WHERE Surname IN ('Иванов', 'Петров', 'Сидоров');**

Result Grid Filter Rows: A Edit: Export/Import: Wrap Cell Content

| # | idStudent | Surname | Name  | Address            | Tel     |
|---|-----------|---------|-------|--------------------|---------|
| 1 | 1         | Иванов  | Иван  | ул. Ленина, д.78   | 2345722 |
| 2 | 2         | Петров  | Петр  | ул. Мира, д.10     | NULL    |
| 3 | 3         | Сидоров | Сидор | ул. Гагарина, д.78 | 7542235 |

10

The screenshot shows a database management interface with a sidebar on the left containing a tree view of schemas and objects. The 'homework\_db' schema is selected, showing tables like 'Matks', 'Student', and 'Views'. A query window titled 'Query 1' contains the following SQL code:

```
1 • SELECT Surname
2   FROM Student
3 WHERE Surname BETWEEN 'Иванов' AND 'Сидоров'
4 ORDER BY Surname ASC;
```

The results grid below the query window displays the following data:

| # | Surname |
|---|---------|
| 1 | Иванов  |
| 2 | Петров  |
| 3 | Сидоров |

On the right side of the interface, there is a vertical toolbar with icons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'.

11

The screenshot shows a database management interface with a left sidebar for navigating schemas and objects, and a main panel for running queries and viewing results.

**Schemas:**

- homework\_db
  - Tables
    - Matks
    - Student
  - Views
  - Stored Procedures
  - Functions
- sys

**Query 1:**

```
1 •  SELECT DISTINCT Surname
2   FROM Student s
3   JOIN Matks m ON s.idStudent = m.Student_idStudent
4   WHERE m.`Subject` = 'Математика' AND m.Mark >=3
5 ;
```

**Result Grid:**

| # | Surname |
|---|---------|
| 1 | Петров  |

**Object Info:** Table: Matks

**Session:**

**Toolbars and Buttons:** The top bar includes icons for file operations, search, and various database functions like refresh, export, and help.

12

Schemas > homework\_db

SCHEMAS

Filter objects

homework\_db

- Tables
  - Matks
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - Student
    - Columns
    - Indexes
    - Foreign Keys
    - Triggers
  - Views
  - Stored Procedures
  - Functions
- sys

Object Info Session

Table: Matks

Query 1

1 • SELECT DISTINCT  
2     Mark AS '5-балльная система',  
3      (Mark \* 20) AS '100-балльная система'  
4 FROM Matks;

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

| # | 5-балльная система | 100-балльная система |
|---|--------------------|----------------------|
| 1 | 2                  | 40                   |
| 2 | 4                  | 80                   |
| 3 | 5                  | 100                  |

Form Editor

Field Types

Query Stats