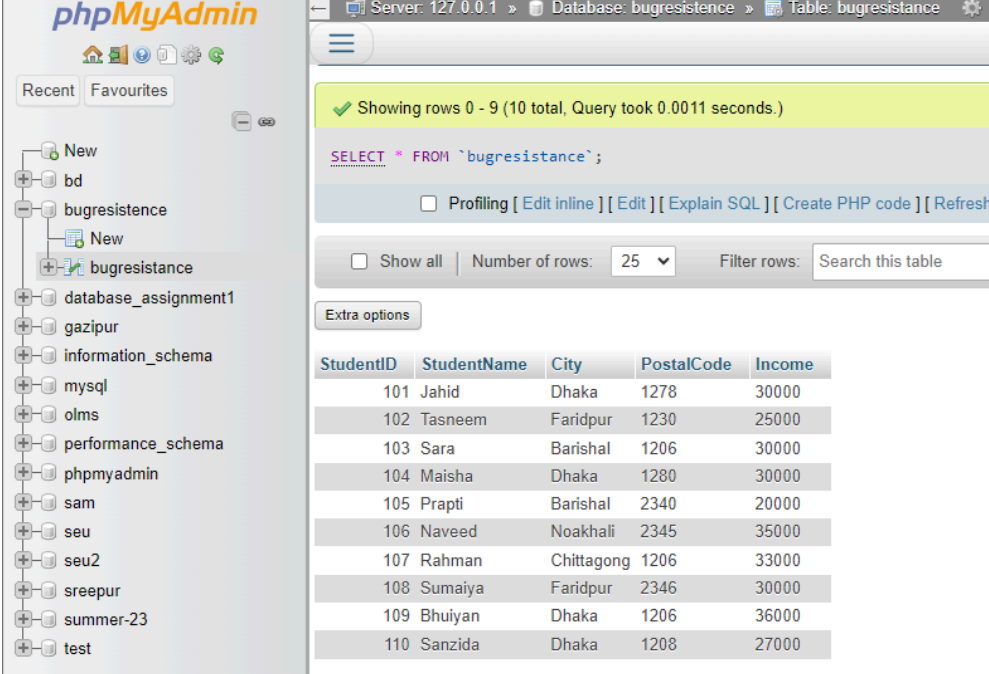


Database Assignment

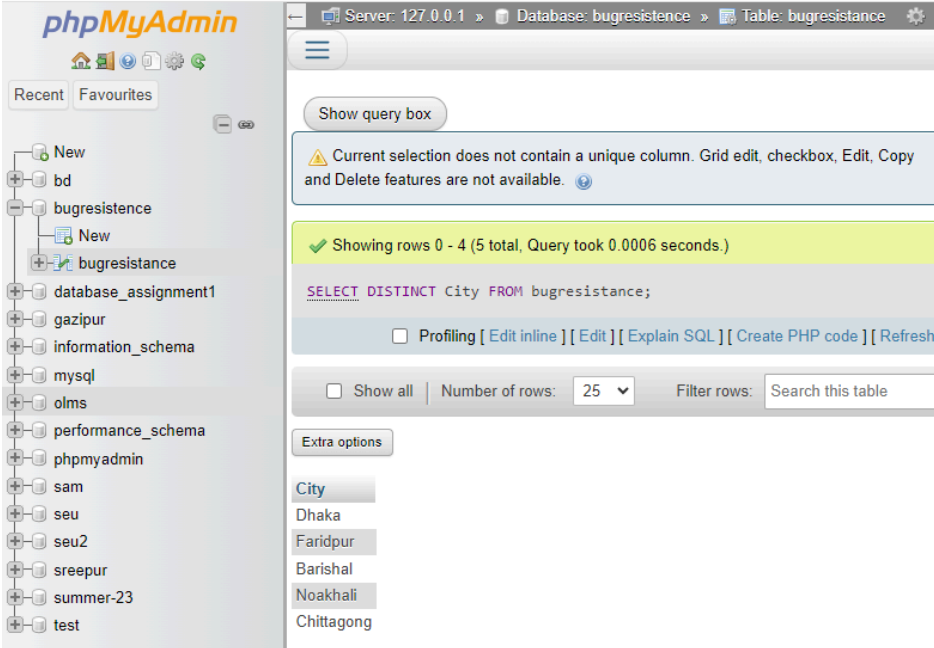
➤ Select All Data from the Database:



The screenshot shows the phpMyAdmin interface. On the left is the database navigation tree with 'bugresistance' selected. The main panel displays a successful query: `SELECT * FROM `bugresistance`;`. A message indicates 'Showing rows 0 - 9 (10 total, Query took 0.0011 seconds.)'. Below the query, there are options for 'Show all', 'Number of rows' (set to 25), and a 'Filter rows' search box. An 'Extra options' button is also present. The query result is shown as a table with 10 rows and 5 columns: StudentID, StudentName, City, PostalCode, and Income.

StudentID	StudentName	City	PostalCode	Income
101	Jahid	Dhaka	1278	30000
102	Tasneem	Faridpur	1230	25000
103	Sara	Barishal	1206	30000
104	Maisha	Dhaka	1280	30000
105	Prapti	Barishal	2340	20000
106	Naveed	Noakhali	2345	35000
107	Rahman	Chittagong	1206	33000
108	Sumaiya	Faridpur	2346	30000
109	Bhuiyan	Dhaka	1206	36000
110	Sanzida	Dhaka	1208	27000

➤ Select Distinct Data:

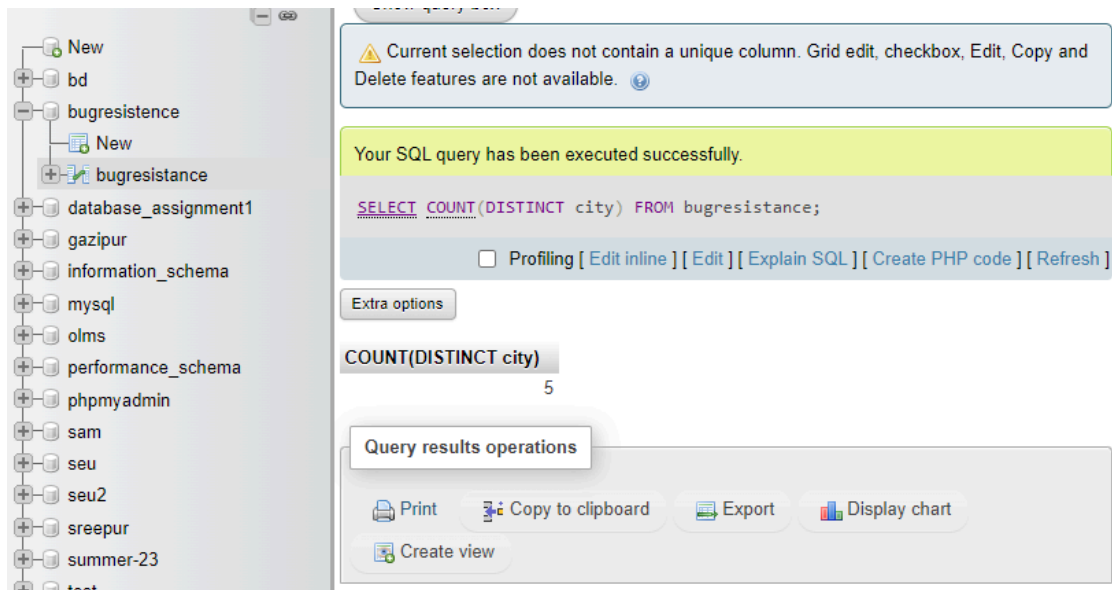


The screenshot shows the phpMyAdmin interface with the same database navigation tree. The main panel displays a successful query: `SELECT DISTINCT City FROM bugresistance;`. A message indicates 'Showing rows 0 - 4 (5 total, Query took 0.0006 seconds.)'. Below the query, there are options for 'Show all', 'Number of rows' (set to 25), and a 'Filter rows' search box. An 'Extra options' button is also present. The query result is shown as a list of distinct city names: Dhaka, Faridpur, Barishal, Noakhali, and Chittagong. A warning message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.'

City

- Dhaka
- Faridpur
- Barishal
- Noakhali
- Chittagong

➤ Select Count on Distinct Data:



The screenshot shows a database management interface. On the left is a tree view of database schemas. The main panel displays a message: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below this, a yellow banner states "Your SQL query has been executed successfully." The SQL query is: `SELECT COUNT(DISTINCT city) FROM bugresistance;`. Below the query, there are links for "Profiling", "Edit inline", "Edit", "Explain SQL", "Create PHP code", and "Refresh". A button labeled "Extra options" is also present. The query result is displayed as `COUNT(DISTINCT city)` with the value `5`. At the bottom, there is a "Query results operations" section with buttons for "Print", "Copy to clipboard", "Export", "Display chart", and "Create view".

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Your SQL query has been executed successfully.

`SELECT COUNT(DISTINCT city) FROM bugresistance;`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

`COUNT(DISTINCT city)`

5

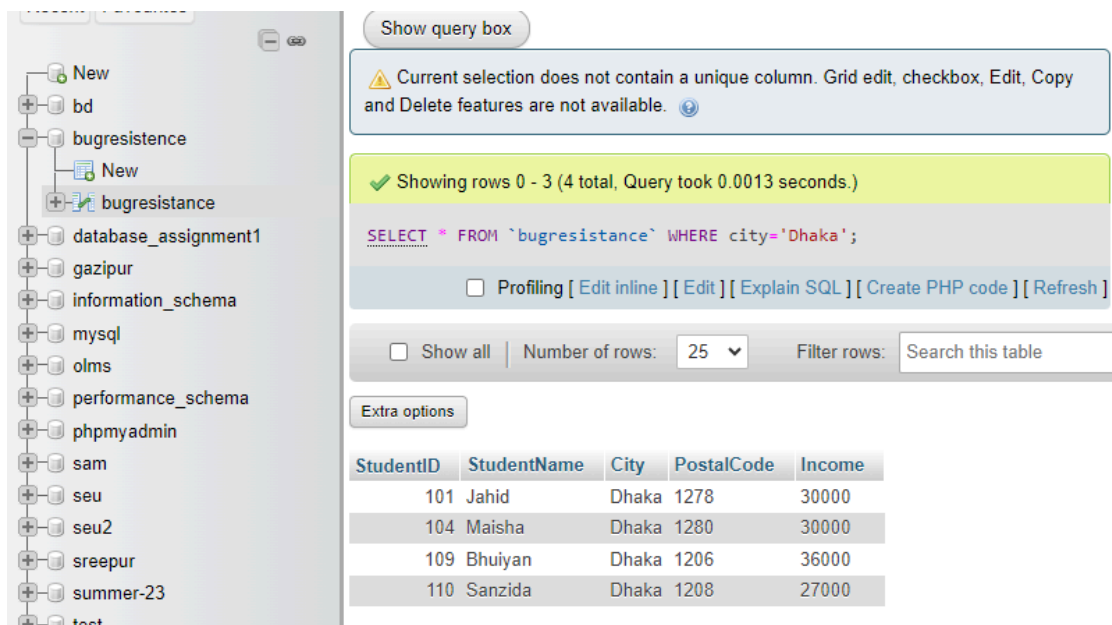
Query results operations

[Print](#) [Copy to clipboard](#) [Export](#) [Display chart](#)

[Create view](#)

➤ WHERE Clause:

1.



The screenshot shows the same database management interface. A button "Show query box" is visible. The message "Current selection does not contain a unique column..." is present. A yellow banner states "Showing rows 0 - 3 (4 total, Query took 0.0013 seconds.)". The SQL query is: `SELECT * FROM `bugresistance` WHERE city='Dhaka';`. Below the query are the same links as in the previous screenshot. Below the links, there are controls for "Show all", "Number of rows" (set to 25), and "Filter rows" (with a search box). A button labeled "Extra options" is also present. The query results are displayed in a table with columns: StudentID, StudentName, City, PostalCode, and Income. The table contains 4 rows of data.

Show query box

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 3 (4 total, Query took 0.0013 seconds.)

`SELECT * FROM `bugresistance` WHERE city='Dhaka';`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

StudentID	StudentName	City	PostalCode	Income
101	Jahid	Dhaka	1278	30000
104	Maisha	Dhaka	1280	30000
109	Bhuiyan	Dhaka	1206	36000
110	Sanzida	Dhaka	1208	27000

2.

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a database tree. The 'bugresistance' database is selected, and the 'bugresistance' table is highlighted. The main panel displays a query result for the query: `SELECT * FROM `bugresistance` WHERE StudentID = 104;`. The result shows one row with the following data:

StudentID	StudentName	City	PostalCode	Income
104	Maisha	Dhaka	1280	30000

Below the table, there are controls for 'Number of rows' (set to 25) and a 'Filter rows' search box. A warning message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.'

3.

The screenshot shows the phpMyAdmin interface. On the left is a sidebar with a database tree. The 'bugresistance' database is selected, and the 'bugresistance' table is highlighted. The main panel displays a query result for the query: `SELECT StudentID, StudentName FROM `bugresistance` WHERE city='Dhaka';`. The result shows four rows with the following data:

StudentID	StudentName
101	Jahid
104	Maisha
109	Bhuiyan
110	Sanzida

Below the table, there are controls for 'Number of rows' (set to 25) and a 'Filter rows' search box. A warning message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.'

4. 'WHERE' and 'AND':

The screenshot shows the phpMyAdmin interface with the 'bugresistance' table selected. The SQL query entered is: `SELECT * FROM `bugresistance` WHERE city='Dhaka' and Income<30000;`. The results show 1 row: StudentID 110, StudentName Sanzida, City Dhaka, PostalCode 1208, Income 27000.

Server: 127.0.0.1 » Database: bugresistance » Table: bugresistance

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)

```
SELECT * FROM `bugresistance` WHERE city='Dhaka' and Income<30000;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

StudentID	StudentName	City	PostalCode	Income
110	Sanzida	Dhaka	1208	27000

5. 'WHERE' and 'OR':

The screenshot shows the phpMyAdmin interface with the 'bugresistance' table selected. The SQL query entered is: `SELECT * FROM `bugresistance` WHERE City='Dhaka' OR Income<30000;`. The results show 6 rows.

Server: 127.0.0.1 » Database: bugresistance » Table: bugresistance

Show query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 5 (6 total, Query took 0.0006 seconds.)

```
SELECT * FROM `bugresistance` WHERE City='Dhaka' OR Income<30000;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

StudentID	StudentName	City	PostalCode	Income
101	Jahid	Dhaka	1278	30000
102	Tasneem	Faridpur	1230	25000
104	Maisha	Dhaka	1280	30000
105	Prapti	Barishal	2340	20000
109	Bhuiyan	Dhaka	1206	36000
110	Sanzida	Dhaka	1208	27000

6. 'WHERE' and 'NOT':

The screenshot shows the phpMyAdmin interface. On the left is the database navigation tree. The main panel displays a SQL query: `SELECT * FROM `bugresistance` WHERE NOT City='Noakhali';`. A message above the query states: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." Below the query, it says "Showing rows 0 - 8 (9 total, Query took 0.0004 seconds.)". There are buttons for "Profiling", "Edit inline", "Edit", "Explain SQL", "Create PHP code", and "Refresh". At the bottom, there are options to "Show all", "Number of rows" (set to 25), and a "Filter rows" search box. The query results are shown in a table with 5 columns: StudentID, StudentName, City, PostalCode, and Income.

StudentID	StudentName	City	PostalCode	Income
101	Jahid	Dhaka	1278	30000
102	Tasneem	Faridpur	1230	25000
103	Sara	Barishal	1206	30000
104	Maisha	Dhaka	1280	30000
105	Prapti	Barishal	2340	20000
107	Rahman	Chittagong	1206	33000
108	Sumaiya	Faridpur	2346	30000
109	Bhuiyan	Dhaka	1206	36000
110	Sanzida	Dhaka	1208	27000

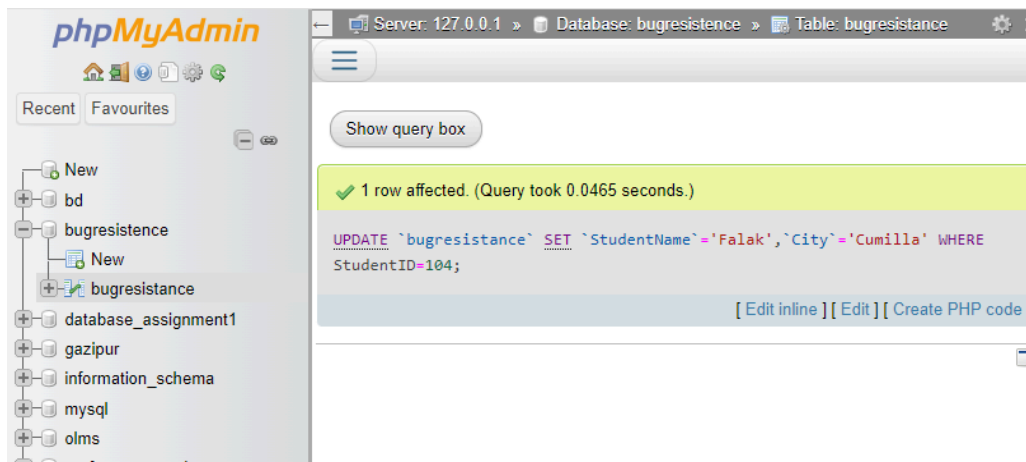
➤ ORDER BY:

The screenshot shows the phpMyAdmin interface. The main panel displays a SQL query: `SELECT * FROM `bugresistance` ORDER BY City;`. A message above the query states: "Showing rows 0 - 9 (10 total, Query took 0.0007 seconds.) [City: BARISHAL... - NOAKHALI...]". There are buttons for "Profiling", "Edit inline", "Edit", "Explain SQL", "Create PHP code", and "Refresh". At the bottom, there are options to "Show all", "Number of rows" (set to 25), and a "Filter rows" search box. The query results are shown in a table with 5 columns: StudentID, StudentName, City, PostalCode, and Income, sorted by City.

StudentID	StudentName	City	PostalCode	Income
103	Sara	Barishal	1206	30000
105	Prapti	Barishal	2340	20000
107	Rahman	Chittagong	1206	33000
101	Jahid	Dhaka	1278	30000
104	Maisha	Dhaka	1280	30000
109	Bhuiyan	Dhaka	1206	36000
110	Sanzida	Dhaka	1208	27000
102	Tasneem	Faridpur	1230	25000
108	Sumaiya	Faridpur	2346	30000
106	Naveed	Noakhali	2345	35000

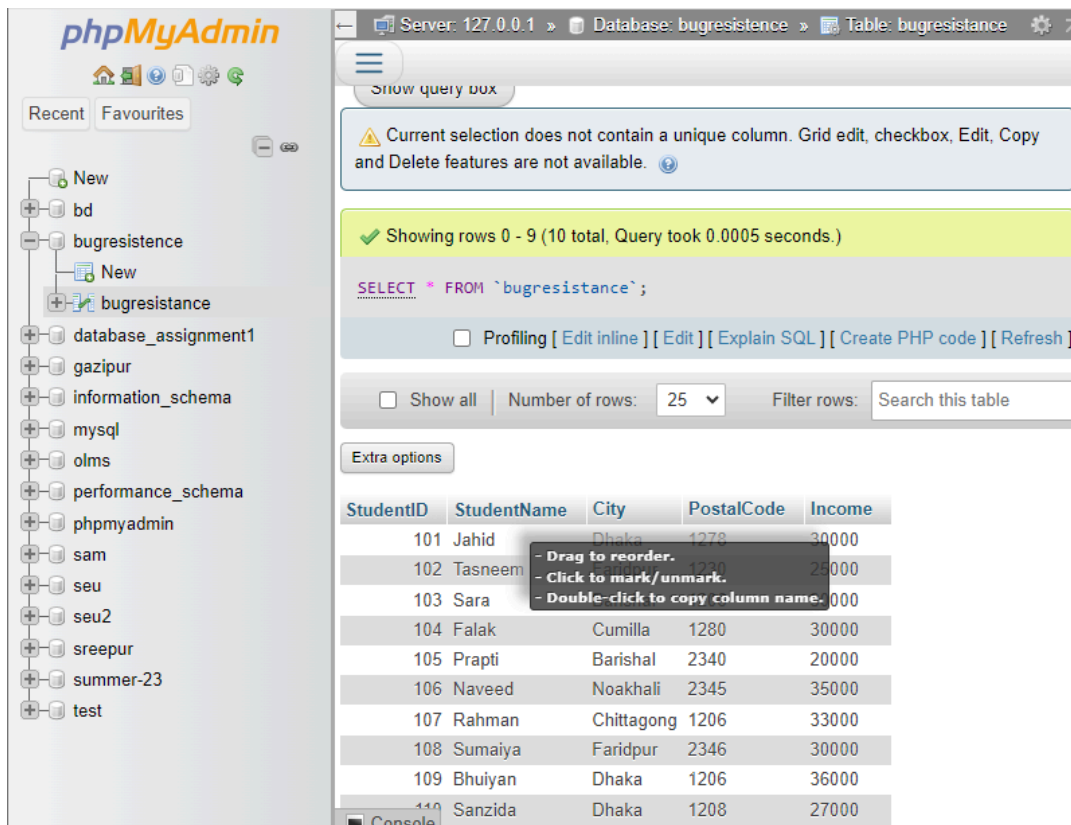
➤ Update Data:

a.



The screenshot shows the phpMyAdmin interface. On the left is the database navigation tree. The main panel displays the execution result of an UPDATE query on the 'bugresistance' table. A green message bar indicates '1 row affected. (Query took 0.0465 seconds.)'. Below this, the SQL query is shown: `UPDATE `bugresistance` SET `StudentName`='Falak', `City`='Cumilla' WHERE StudentID=104;`. At the bottom of the query box are links for '[Edit inline]', '[Edit]', and '[Create PHP code]'.

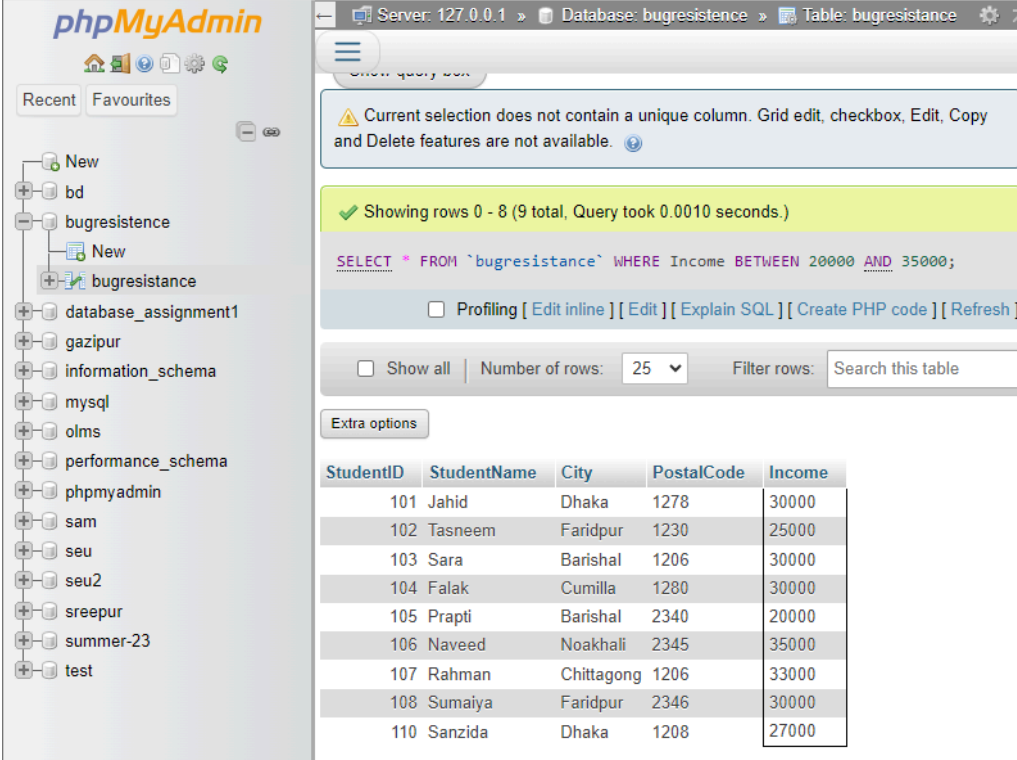
b.



The screenshot shows the phpMyAdmin interface with the 'bugresistance' table selected. A warning message states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green message bar says 'Showing rows 0 - 9 (10 total, Query took 0.0005 seconds.)'. The SQL query `SELECT * FROM `bugresistance`;` is displayed. Below the query box are controls for 'Show all', 'Number of rows' (set to 25), and 'Filter rows'. An 'Extra options' button is also present. The table data is shown in a grid with columns: StudentID, StudentName, City, PostalCode, and Income. A tooltip is visible over the 'City' column header with instructions: 'Drag to reorder.', 'Click to mark/unmark.', and 'Double-click to copy column name.'.

StudentID	StudentName	City	PostalCode	Income
101	Jahid	Dhaka	1278	30000
102	Tasneem	Dhaka	1220	25000
103	Sara	Dhaka	1200	30000
104	Falak	Cumilla	1280	30000
105	Prapti	Barishal	2340	20000
106	Naveed	Noakhali	2345	35000
107	Rahman	Chittagong	1206	33000
108	Sumaiya	Faridpur	2346	30000
109	Bhuiyan	Dhaka	1206	36000
110	Sanzida	Dhaka	1208	27000

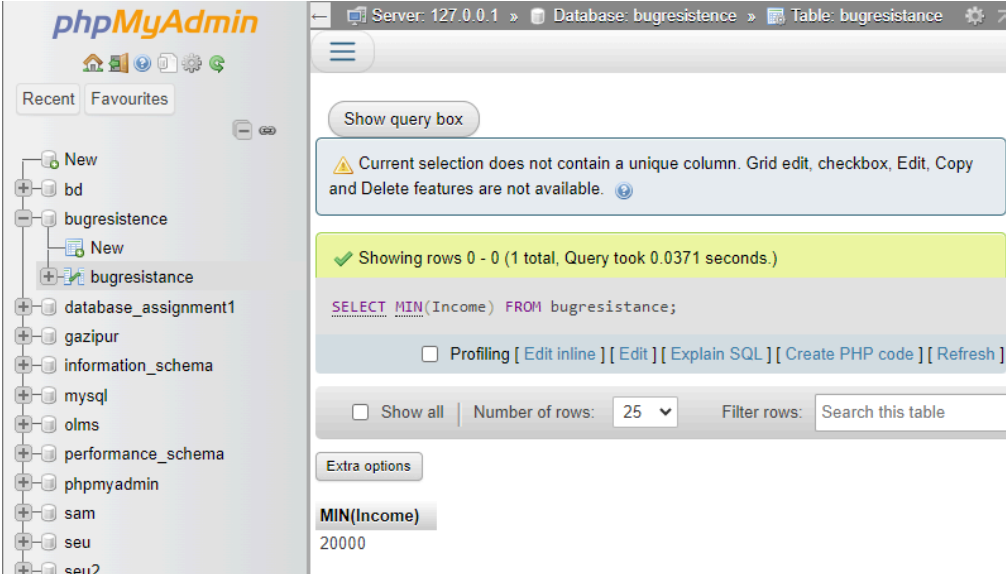
➤ Within a Range Data:



The screenshot shows the phpMyAdmin interface with the 'bugresistance' database selected. A SQL query is entered in the query box: `SELECT * FROM `bugresistance` WHERE Income BETWEEN 20000 AND 35000;`. The results show 9 rows of data, with the first row highlighted in yellow. The table has columns: StudentID, StudentName, City, PostalCode, and Income.

StudentID	StudentName	City	PostalCode	Income
101	Jahid	Dhaka	1278	30000
102	Tasneem	Faridpur	1230	25000
103	Sara	Barishal	1206	30000
104	Falak	Cumilla	1280	30000
105	Prapti	Barishal	2340	20000
106	Naveed	Noakhali	2345	35000
107	Rahman	Chittagong	1206	33000
108	Sumaiya	Faridpur	2346	30000
110	Sanzida	Dhaka	1208	27000

➤ Select MIN Data:



The screenshot shows the phpMyAdmin interface with the 'bugresistance' database selected. A SQL query is entered in the query box: `SELECT MIN(Income) FROM bugarisistance;`. The results show 1 row of data, with the first row highlighted in yellow. The table has columns: MIN(Income) and the value 20000.

MIN(Income)
20000

➤ Select Max Data:

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible, including 'bugresistance'. The main panel displays a query box with the following SQL query:

```
SELECT MAX(Income) FROM bugresistance;
```

Below the query box, the results are shown as a single row in a table:

MAX(Income)
36000

Additional details visible in the interface include a warning message: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." and a status bar indicating "Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)".

➤ Inner Join Data:

The screenshot shows the phpMyAdmin interface. On the left, the database structure is visible, including 'bugresistance' and 'university'. The main panel displays a query box with the following SQL query:

```
SELECT bugresistance.StudentID, university.StudentName, bugresistance.City FROM bugresistance INNER JOIN university ON bugresistance.StudentName=university.StudentName;
```

Below the query box, the results are shown as a single row in a table:

StudentID	StudentName	City
102	Tasneem	Faridpur

Additional details visible in the interface include a warning message: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." and a status bar indicating "Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)".

➤ Left Join Data:

The screenshot shows the phpMyAdmin interface with the 'bugresistance' database selected. The left sidebar shows the database structure, including 'bugresistance' and 'university' tables. The main panel displays the SQL query: `SELECT bugresistance.StudentID, university.StudentName, bugresistance.City FROM bugresistance LEFT JOIN university ON bugresistance.StudentName=university.StudentName;`. The query result shows 10 rows, with the first row having StudentID 102, StudentName Tasneem, and City Faridpur. The other rows have NULL values for StudentName and City.

StudentID	StudentName	City
102	Tasneem	Faridpur
101	NULL	Dhaka
103	NULL	Barishal
104	NULL	Cumilla
105	NULL	Barishal
106	NULL	Noakhali
107	NULL	Chittagong
108	NULL	Faridpur
109	NULL	Dhaka
110	NULL	Dhaka

➤ Right Join Data:

The screenshot shows the phpMyAdmin interface with the 'bugresistance' database selected. The left sidebar shows the database structure, including 'bugresistance' and 'university' tables. The main panel displays the SQL query: `SELECT bugresistance.StudentID, university.StudentName, bugresistance.City FROM bugresistance RIGHT JOIN university ON bugresistance.StudentName=university.StudentName;`. The query result shows 10 rows, with the first row having StudentID 102, StudentName Tasneem, and City Faridpur. The other rows have NULL values for StudentID and City.

StudentID	StudentName	City
102	Tasneem	Faridpur
NULL	Rahat	NULL
NULL	Laila	NULL
NULL	Ety	NULL
NULL	Fatema	NULL
NULL	Emrul	NULL
NULL	Ovi	NULL
NULL	Paul	NULL
NULL	Easin	NULL
NULL	Lery	NULL