

1.

```
SELECT assignments.assignment_id, assignment_name, AVG(score) AS average_score
FROM scores JOIN assignments ON scores.assignment_id =
assignments.assignment_id GROUP BY assignment_id, assignment_name;
```

The screenshot shows the phpMyAdmin web interface in a browser. The address bar indicates the URL is `localhost/phpmyadmin/index.php?route=/database/sql&db=university_course_management_system`. The left sidebar shows a database structure with the following items: `New`, `information_schema`, `marubeni_tms`, `mysql`, `performance_schema`, `phpmyadmin`, `test`, and `university_course_management`. Under `university_course_management`, there are sub-items: `New`, `assignments`, `courses`, `enrollments`, `scores`, and `students`. The main panel shows the 'Table: assignments' view. A 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 bar indicates 'Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)'. The SQL query is displayed: `SELECT assignments.assignment_id, assignment_name, AVG(score) AS average_score FROM scores JOIN assignments ON scores.assignment_id = assignments.assignment_id GROUP BY assignment_id, assignment_name;`. Below the query, there are options for 'Show all', 'Number of rows: 25', and a 'Filter rows' search box. The 'Extra options' section shows a table with the following data:

assignment_id	assignment_name	average_score
4001	MidtermExam	88.5000
4002	FinalExam	138.5000

Below the table, there are more options for 'Show all', 'Number of rows: 25', and a 'Filter rows' search box. At the bottom, the 'Query results operations' section includes buttons for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The Windows taskbar at the bottom shows the time as 4:12 PM on 8/18/2023.

2.

```
SELECT students.student_name, courses.department, COUNT(enrollments.course_id)
AS Total_num_courses_enrolled FROM students JOIN enrollments ON
students.student_id = enrollments.student_id JOIN courses ON
enrollments.course_id = courses.course_id GROUP BY students.student_name,
students.student_id HAVING COUNT(enrollments.course_id) > 1;
```

The screenshot shows the phpMyAdmin web interface in a browser. The address bar indicates the URL is localhost/phpmyadmin/index.php?route=/database/sql&db=university_course_management_system. The interface includes a sidebar with a database tree on the left, a top navigation bar with tabs like Structure, SQL, Search, Query, Export, Import, Operations, Privileges, Routines, Events, and Triggers, and a main content area. The main content area displays a message: "Your SQL query has been executed successfully." Below this, the executed SQL query is shown. Under the "Extra options" section, a table of query results is displayed with columns: student_name, department, and Total_num_courses_enrolled. The table contains one row: John Smith, Math, 2. Below the table, there are buttons for "Query results operations" (Print, Copy to clipboard, Export, Display chart, Create view) and a "Bookmark this SQL query" section with a label input field and a checkbox "Let every user access this bookmark". The Windows taskbar at the bottom shows the time as 4:32 PM on 8/18/2023.

Server: 127.0.0.1 > Database: university_course_management_system

Show query box

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 students.student_name, courses.department, COUNT(enrollments.course_id) AS Total_num_courses_enrolled FROM students JOIN enrollments ON
students.student_id = enrollments.student_id JOIN courses ON enrollments.course_id = courses.course_id GROUP BY students.student_name,
students.student_id HAVING COUNT(enrollments.course_id) > 1;
```

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

Extra options

student_name	department	Total_num_courses_enrolled
John Smith	Math	2

Query results operations

Label: ☐ Let every user access this bookmark

this SQL query

3.

```
SELECT courses.course_name,COUNT(enrollments.course_id) AS total_enrolled FROM
courses
JOIN enrollments ON courses.course_id = enrollments.course_id
GROUP BY courses.course_name
ORDER BY total_enrolled DESC LIMIT 1;
```

The screenshot shows the phpMyAdmin web interface in a browser. The address bar indicates the URL is localhost/phpmyadmin/index.php?route=/database/sql&db=university_course_management_system. The left sidebar shows a database structure with 'university_course_management_system' selected, containing tables like assignments, courses, enrollments, scores, and students. The main panel shows the 'courses' table selected. A message states 'Your SQL query has been executed successfully.' The executed query is: `SELECT courses.course_name,COUNT(enrollments.course_id) AS total_enrolled FROM courses JOIN enrollments ON courses.course_id = enrollments.course_id GROUP BY courses.course_name ORDER BY total_enrolled DESC LIMIT 1;` Below the query, a table displays the results:

course_name	total_enrolled
Mathematics	2

Below the table, there are options for 'Query results operations' (Print, Copy to clipboard, Export, Display chart, Create view) and a 'Bookmark this SQL query' section with a label input and a checkbox 'Let every user access this bookmark'.

4.

```
SELECT students.student_name, AVG(scores.score) AS avg_score FROM students  
JOIN scores ON students.student_id = scores.student_id  
GROUP BY students.student_id;
```

The screenshot shows the phpMyAdmin web interface in a browser. The URL is localhost/phpmyadmin/index.php?route=/database/sql&db=university_course_management_system. The interface displays a SQL query and its results for the 'students' table.

Query:

```
SELECT students.student_name, AVG(scores.score) AS avg_score FROM students JOIN scores ON students.student_id = scores.student_id GROUP BY students.student_id;
```

Results:

student_name	avg_score
John Smith	110.0000
Emily Brown	117.0000

The interface also shows a message: "Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available." and a status bar at the bottom indicating the system temperature and time.