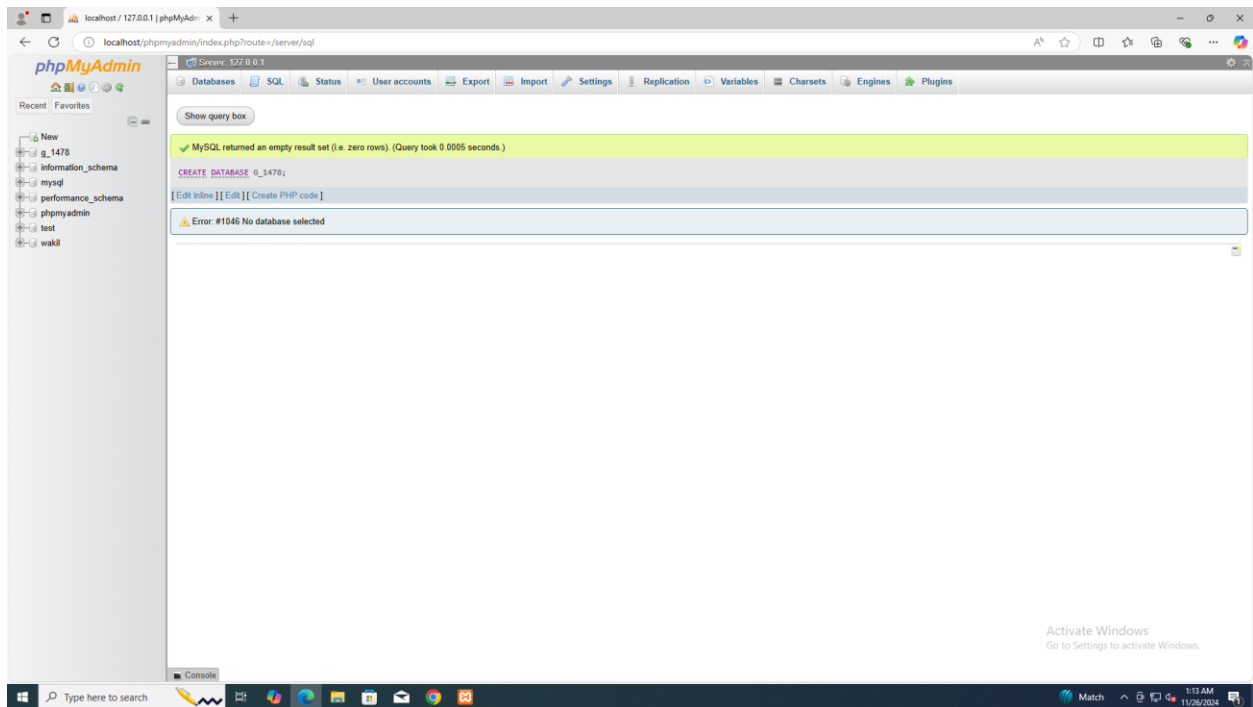


DBMS Lab Final

Ans To The Question No. 01



Ans To The Question No. 02

The image displays two sequential screenshots of the phpMyAdmin web interface, demonstrating the creation of two database tables.

Top Screenshot: The interface shows the 'Structure' tab for a database named 'g_1478'. A 'Show query box' button is visible. The SQL query area contains the following code:

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds)

create TABLE customers ( c_id int primary key, first_name varchar (20), last_name varchar (20), email varchar (30) );

[Edit inline] [Edit] [Create PHP code]
```

Bottom Screenshot: The interface shows the same phpMyAdmin window, but the SQL query area now contains the code to create a second table, 'orders', which includes a foreign key reference to the 'customers' table:

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds)

create TABLE orders ( o_id int primary key, c_id int, order_date date, total_amount float, FOREIGN KEY (c_id) REFERENCES customers(c_id) );

[Edit inline] [Edit] [Create PHP code]
```

Both screenshots show a left-hand sidebar with a tree view of databases and schemas, including 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'wakil'. The bottom of the image shows a Windows taskbar with the date and time as 11:26 AM on 11/26/2024.

Ans To The Question No. 03

The screenshot shows the phpMyAdmin web interface in a browser. The left sidebar displays a database structure with a tree view containing 'New', 'g_1478', 'New', 'customers', 'orders', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'wakil'. The main panel shows the 'Query' tab with two executed queries. The first query successfully inserted 4 rows into the 'customers' table. The second query successfully inserted 4 rows into the 'orders' table, but it generated four warnings about data truncation for the 'order_date' column. The bottom status bar shows the system time as 1:28 AM on 11/26/2024.

Server: 127.0.0.1 • Database: g_1478

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking Designer Central columns

Show query box

✓ 4 rows inserted. (Query took 0.0093 seconds.)

```
INSERT INTO customers (c_id, first_name, last_name, email) VALUES ( 101, "Michael", "Brown", "michael@example.com"), ( 102, "Sarah", "Davis", "sarah@example.com"), ( 103, "Jason", "Smith", "jason@example.com"), ( 104, "Emma", "Wilson", "emma@example.com");
```

[Edit inline] [Edit] [Create PHP code]

✓ 4 rows inserted. (Query took 0.0057 seconds.)

```
INSERT INTO orders (o_id, c_id, order_date, total_amount) VALUES (1, 101, 2022-01-05, 150), (2, 102, 2022-02-10, 200), (3, 103, 2022-02-15, 120), (4, 104, 2022-03-02, 300);
```

[Edit inline] [Edit] [Create PHP code]

Warning: #1265 Data truncated for column 'order_date' at row 1

Warning: #1265 Data truncated for column 'order_date' at row 2

Warning: #1265 Data truncated for column 'order_date' at row 3

Warning: #1265 Data truncated for column 'order_date' at row 4

Activate Windows
Go to Settings to activate Windows.

Console

Type here to search

68°F Mostly sunny 1:28 AM 11/26/2024

Ans To The Question No. 04

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost/phpmyadmin/index.php?route=/database/q1&db=g_1478`. The interface includes a sidebar on the left with a tree view of databases and tables. The main panel shows the 'SQL' tab selected, with a toolbar containing options like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. A 'Show query box' button is visible. The query execution result is displayed in a green box, indicating a successful query that returned an empty result set. The SQL query is: `select first_name, last_name from customers where c_id in (select c_id from orders where order_date BETWEEN '2022-02-01' and '2022-02-28');`. Below the query, there are buttons for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A table with two columns, 'first_name' and 'last_name', is shown, but it is empty. Below the table, there are buttons for 'Query results operations' and 'Create view'. A 'Bookmark this SQL query' section is also present, with a 'Label' input field and a checkbox for 'Let every user access this bookmark'. At the bottom of the main panel, there is a 'Bookmark this SQL query' button. The Windows taskbar is visible at the bottom, showing the system clock as 1:39 AM on 11/26/2024.

Server: 127.0.0.1 » Database: g_1478 » Table: customers

SQL

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
select first_name, last_name from customers where c_id in ( select c_id from orders where order_date BETWEEN '2022-02-01' and '2022-02-28' );
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

first_name	last_name
------------	-----------

Query results operations

[Create view](#)

[Bookmark this SQL query](#)

Label: ☐ Let every user access this bookmark

[Bookmark this SQL query](#)

Console

Activate Windows
Go to Settings to activate Windows.

68°F. Mostly sunny 1:39 AM 11/26/2024

Ans To The Question No. 05

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost/phpmyadmin/index.php?route=/database/q&db=g_1478`. The interface includes a sidebar with a database tree structure on the left, listing databases like `g_1478`, `customers`, `orders`, `information_schema`, `mysql`, `performance_schema`, `phpmyadmin`, `test`, and `wakil`. The main panel shows the 'Table: orders' view. A message at the top states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' Below this, a green banner indicates: 'Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)'. The SQL query entered is: `SELECT MAX(total_amount) from orders;`. The result is displayed in a table with one row:

MAX(total_amount)
300

. The interface also features a 'Query results operations' section with buttons for Print, Copy to clipboard, Export, Display chart, and Create view. At the bottom, there is a 'Bookmark this SQL query' section with a label input field and a checkbox for 'Let every user access this bookmark'. The Windows taskbar at the bottom shows the system clock as 1:39 AM on 11/26/2024, with a weather widget indicating 68°F and 'Mostly sunny'.

Ans To The Question No. 06

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure with the following items: New, g_1478, New, customers, orders, information_schema, mysql, performance_schema, phpmyadmin, test, and wakil. The main panel shows the 'orders' table selected. A SQL query is entered in the 'Show query box':

```
select total_amount from orders where total_amount < 100;
```

The query results are displayed in a table with the following data:

total_amount
150
120

Below the table, there are options for 'Query results operations' including Print, Copy to clipboard, Export, Display chart, and Create view. There is also a 'Bookmark this SQL query' section with a label input field and a checkbox 'Let every user access this bookmark'. The bottom of the interface shows a Windows taskbar with the date 11/26/2024 and time 1:44 AM.

Ans To The Question No. 07

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost/phpmyadmin/index.php?route=/database/q1&db=g_1478`. The interface includes a sidebar with a database tree on the left and a main content area on the right. The database tree shows a database named `g_1478` with several tables, including `orders`. The main content area shows the results of a SQL query executed against the `orders` table. The query is: `select * from orders where order_date >= '2022-01-01';`. The result is a message: `MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)`. Below the message, there are links for `Profiling`, `Edit inline`, `Edit`, `Explain SQL`, `Create PHP code`, and `Refresh`. A table header is visible with columns: `o_id`, `c_id`, `order_date`, and `total_amount`. Below the table header, there are buttons for `Query results operations` and `Create view`. At the bottom of the main content area, there is a section for `Bookmark this SQL query` with a label input field and a checkbox for `Let every user access this bookmark`. The bottom of the browser window shows the Windows taskbar with the search bar, task view button, and several application icons. The system tray shows the date and time: `1:44 AM 11/26/2024`.

Server: 127.0.0.1 » Database: g_1478 » Table: orders

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0001 seconds.)

```
select * from orders where order_date >= '2022-01-01';
```

[Profiling](#) [Edit inline](#) [Edit](#) [Explain SQL](#) [Create PHP code](#) [Refresh](#)

o_id	c_id	order_date	total_amount
------	------	------------	--------------

Query results operations

Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Activate Windows
Go to Settings to activate Windows.

Console

Type here to search

68°F. Mostly sunny 1:44 AM 11/26/2024

Ans To The Question No. 08

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure with the following items: New, g_1478, New, customers, orders, information_schema, mysql, performance_schema, phpmyadmin, test, and wakil. The main panel shows the 'orders' table selected. A SQL query is entered and executed: `select c_id, AVG(total_amount) AS avg_total_amount from orders group by c_id;`. The result shows 4 rows of data. Below the table, there are options to 'Bookmark this SQL query' and a 'Console' tab at the bottom.

Showing rows 0 - 3 (4 total, Query took 0.0001 seconds)

```
select c_id, AVG(total_amount) AS avg_total_amount from orders group by c_id;
```

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

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

Extra options

	c_id	avg_total_amount
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	101	150
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	102	200
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	103	120
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	104	300

☐ Check all | With selected: [Edit](#) [Copy](#) [Delete](#) [Export](#)

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

Query results operations

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

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

[Bookmark this SQL query](#)

Activate Windows
Go to Settings to activate Windows.

Console

Ans To The Question No. 09

The screenshot displays the phpMyAdmin web interface. The left sidebar shows a database structure with a 'customers' table selected. The main panel shows the results of a SQL query: `select first_name, last_name from customers where last_name like 'x%';`. The query returned one row: Sarah Davis. The interface includes various toolbars for navigation, query execution, and data manipulation. The bottom status bar shows the system time as 1:46 AM on 11/26/2024.

Server: 127.0.0.1 * Database: g_1478 * Table: customers

Showing rows 0 - 0 (1 total, Query took 0.0001 seconds)

```
select first_name, last_name from customers where last_name like 'x%';
```

Extra options

first_name	last_name
Sarah	Davis

Query results operations

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Activate Windows
Go to Settings to activate Windows.

Ans To The Question No. 10

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost/phpmyadmin/index.php?route=/database/qj&db=g_1478`. The interface includes a sidebar with a database tree on the left, listing databases like `g_1478`, `customers`, `orders`, `information_schema`, `mysql`, `performance_schema`, `phpmyadmin`, `test`, and `wakil`. The main panel shows the 'Database: g_1478' and 'Table: orders' context. A 'Show query box' button is at the top. Below it, a warning message states: 'Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.' A green status bar indicates 'Showing rows 0 - 0 (1 total, Query took 0.0002 seconds.)'. The SQL query entered is: `select count(*) as total_orders from orders where c_id = 101;`. Below the query, there are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A table view shows one row with the column 'total_orders' and the value '1'. Below the table, there are 'Query results operations' (Print, Copy to clipboard, Export, Display chart, Create view) and a 'Bookmark this SQL query' section with a label field and a checkbox 'Let every user access this bookmark'. The bottom of the interface shows a 'Console' tab and a Windows taskbar with the date '11/26/2024' and time '1:47 AM'.

Ans To The Question No. 11

The screenshot shows the phpMyAdmin web interface. The left sidebar displays the database structure with a tree view showing 'New', 'g_1478', 'customers', 'orders', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'wakil'. The main panel shows the 'orders' table selected. A SQL query is entered in the 'Show query box' area: `select * from orders where total_amount between 100 and 200;`. The query results are displayed in a table with 3 rows. The table has columns: `o_id`, `c_id`, `order_date`, and `total_amount`. The results are as follows:

	<code>o_id</code>	<code>c_id</code>	<code>order_date</code>	<code>total_amount</code>
<input type="checkbox"/>	1	101	0000-00-00	150
<input type="checkbox"/>	2	102	0000-00-00	200
<input type="checkbox"/>	3	103	0000-00-00	120

Below the table, there are options for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. The 'Query results operations' section includes 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The 'Bookmark this SQL query' section has a 'Label' field and a checkbox 'Let every user access this bookmark'. The 'Console' tab is visible at the bottom.

Ans To The Question No. 12

The screenshot displays the phpMyAdmin web interface. The left sidebar shows a database structure with a selected database 'g_1478' containing tables 'customers', 'orders', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'wakil'. The main panel shows the 'orders' table selected. A SQL query is entered and executed: `select order_date, count(*) as order_count from orders group by order_date;`. The result shows 4 rows. The interface includes various toolbars for navigation, query execution, and data manipulation. A console window is visible at the bottom.

Server: 127.0.0.1 * Database: g_1478 * Table: orders

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds)

```
select order_date, count(*) as order_count from orders group by order_date;
```

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

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

Extra options

order_date	order_count
0000-00-00	4

Check all | With selected: Edit | Copy | Delete | Export

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

Query results operations

Print | Copy to clipboard | Export | Display chart | Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Console

Activate Windows
Go to Settings to activate Windows.

68°F. Mostly sunny 1:48 AM 11/26/2024

Ans To The Question No. 13

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost/phpmyadmin/index.php?route=/database/q1478&db=g_1478`. The interface includes a sidebar on the left with a tree view of databases and tables, including 'g_1478', 'customers', 'orders', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'wakil'. The main panel shows the 'orders' table selected. A toolbar at the top of the main panel contains buttons for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. Below the toolbar, a 'Show query box' button is visible. The query execution result is displayed in a green box, indicating a successful query: 'MySQL returned an empty result set (i.e. zero rows) (Query took 0.0001 seconds)'. The SQL query entered is: `select c_id from orders group by c_id having count(*) > 2;`. Below the query, there are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. A 'c_id' column is listed in the results. Below the results, there are buttons for 'Query results operations' and 'Create view'. A 'Bookmark this SQL query' section is also present, with a 'Label' input field and a checkbox 'Let every user access this bookmark'. At the bottom of the main panel, there is a 'Console' tab. The Windows taskbar at the bottom shows the system clock as 1:49 AM on 11/26/2024, and the weather as 68°F, Mostly sunny.

Ans To The Question No. 14

The screenshot displays the phpMyAdmin web interface. The left sidebar shows a database structure with a tree view containing 'New', 'g_1478', 'New', 'customers', 'orders', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'wakil'. The main panel shows the 'orders' table selected. A SQL query is entered in the 'SQL' tab: `select c_id, avg(total_amount) AS avg_total_amount from orders group by c_id order by avg_total_amount DESC limit 1;`. The query has been executed successfully, showing 0 rows. Below the query, there are options for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'. The 'Extra options' section shows a table with columns 'c_id' and 'avg_total_amount'. The table has 104 rows, with the first row having a 'c_id' of 300. Below the table, there are options for 'Check all', 'With selected', 'Edit', 'Copy', 'Delete', and 'Export'. The 'Query results operations' section includes 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The 'Bookmark this SQL query' section has a 'Label' input field and a checkbox 'Let every user access this bookmark'. The 'Bookmark this SQL query' button is also present. The bottom of the interface shows a 'Console' tab and a Windows taskbar with the date 11/26/2024 and time 1:50 AM.

Server: 127.0.0.1 » Database: g_1478 » Table: orders

Showing rows 0 - 0 (1 total, Query took 0.0002 seconds)

```
select c_id, avg(total_amount) AS avg_total_amount from orders group by c_id order by avg_total_amount DESC limit 1;
```

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

Extra options

c_id	avg_total_amount
104	300

Check all With selected: Edit Copy Delete Export

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Bookmark this SQL query

Activate Windows
Go to Settings to activate Windows.

Ans To The Question No. 15

The screenshot shows the phpMyAdmin web interface. The left sidebar displays the database structure with a tree view including 'New', 'g_1478', 'New', 'customers', 'orders', 'information_schema', 'mysql', 'performance_schema', 'phpmyadmin', 'test', and 'wakil'. The main panel shows the 'orders' table selected. A SQL query is entered in the 'Show query box' area: `select * from orders where total_amount > (select AVG(total_amount) from orders);`. The query results are displayed in a table with 2 rows. 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. The Windows taskbar at the bottom shows the date and time as 11:51 AM on 11/26/2024.

Showing rows 0 - 1 (2 total, Query took 0.0002 seconds.)

```
select * from orders where total_amount > (select AVG(total_amount) from orders);
```

Extra options

	o_id	c_id	order_date	total_amount
<input type="checkbox"/>	2	102	0000-00-00	200
<input type="checkbox"/>	4	104	0000-00-00	300

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label ☐ Let every user access this bookmark

Bookmark this SQL query

Activate Windows
Go to Settings to activate Windows.

Ans To The Question No. 16

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost/phpmyadmin/index.php?route=/database/sql&db=g_1478`. The interface includes a sidebar on the left with a tree view of databases and tables, including `g_1478`, `customers`, `orders`, `information_schema`, `mysql`, `performance_schema`, `phpmyadmin`, `test`, and `wakil`.

The main panel shows the 'SQL' tab selected. A 'Show query box' button is at the top. Below it, a green message box states: 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)'. The SQL query entered is: `select o.* from orders o join customers c on o.c_id = o.c_id = c.c_id where c.email like '%@example.com';`. Below the query, there are links for 'Profiling', 'Edit inline', 'Edit', 'Explain SQL', 'Create PHP code', and 'Refresh'.

Below the query, a table header is visible: `o_id c_id order_date total_amount`. The table body is empty. Below the table, there is a 'Query results operations' section with a 'Create view' button. Further down, there is a 'Bookmark this SQL query' section with a 'Label' input field, a checkbox 'Let every user access this bookmark', and a 'Bookmark this SQL query' button.

The bottom of the interface shows a 'Console' tab. The Windows taskbar at the bottom indicates the system time as 1:59 AM on 11/26/2024, with a weather forecast of 68°F, Mostly sunny.