

# SQL Test Assessment

## QUESTION NO: 1

SELECT t1.orderNumber,t2.productName,t4.customerName,t5.amount,t5.checkNumber FROM orders as t1 INNER JOIN orderdetails as t3 ON t1.orderNumber = t3.orderNumber INNER JOIN products as t2 ON t3.productCode = t2.productCode INNER JOIN customers as t4 ON t1.customerNumber = t4.customerNumber INNER JOIN payments as t5 ON t5.customerNumber = t4.customerNumber WHERE t1.orderNumber=10100;

The screenshot shows the phpMyAdmin interface for a database named 'sample'. The left sidebar displays the database structure, including tables like 'customers', 'employees', 'offices', 'orderdetails', 'orders', 'payments', 'productlines', and 'products'. The main panel shows the 'Query' tab with a table of results for the SQL query provided in the question. The table has five columns: 'orderNumber', 'productName', 'customerName', 'amount', and 'checkNumber'. The results show 10 rows of data for orderNumber 10100, including product details like '1917 Grand Touring Sedan' and '1932 Alfa Romeo 8C2300 Spider Sport'.

orderNumber	productName	customerName	amount	checkNumber
10100	1917 Grand Touring Sedan	Online Diecast Creations Co.	50799.69	HL575273
10100	1911 Ford Town Car	Online Diecast Creations Co.	50799.69	HL575273
10100	1932 Alfa Romeo 8C2300 Spider Sport	Online Diecast Creations Co.	50799.69	HL575273
10100	1936 Mercedes Benz 500k Roadster	Online Diecast Creations Co.	50799.69	HL575273
10100	1917 Grand Touring Sedan	Online Diecast Creations Co.	10223.83	IS232033
10100	1911 Ford Town Car	Online Diecast Creations Co.	10223.83	IS232033
10100	1932 Alfa Romeo 8C2300 Spider Sport	Online Diecast Creations Co.	10223.83	IS232033
10100	1936 Mercedes Benz 500k Roadster	Online Diecast Creations Co.	10223.83	IS232033
10100	1917 Grand Touring Sedan	Online Diecast Creations Co.	55425.77	PN238558
10100	1911 Ford Town Car	Online Diecast Creations Co.	55425.77	PN238558
10100	1932 Alfa Romeo 8C2300 Spider Sport	Online Diecast Creations Co.	55425.77	PN238558
10100	1936 Mercedes Benz 500k Roadster	Online Diecast Creations Co.	55425.77	PN238558

## QUESTION NO: 2

SELECT t1.orderNumber,SUM(t3.amount) AS total\_paid\_amount\_for\_the\_order\_10100 FROM orders as t1 INNER JOIN orderdetails as t4 ON t1.orderNumber = t4.orderNumber INNER JOIN products as t5 ON t4.productCode = t5.productCode INNER JOIN customers as t2 ON t1.customerNumber = t2.customerNumber INNER JOIN payments as t3 ON t3.customerNumber = t2.customerNumber WHERE t1.orderNumber=10100;

The screenshot shows the phpMyAdmin web interface in a browser window. The browser address bar shows the URL: `localhost/phpmyadmin/sql.php?db=sample&table=customers&server=1&target=&token=2440054e48a751fdce51c80f1f8bbd56#PMAURL-2:db_sql.php?db=sample&tabl...`. The phpMyAdmin interface has a sidebar on the left with a tree view of databases: `information_schema`, `mysql`, `performance_schema`, and `sample`. Under `sample`, there are tables: `customers`, `employees`, `offices`, `orderdetails`, `orders`, `payments`, `productlines`, `products`, and `test`. The main panel shows the 'SQL' tab selected. A query box contains the following SQL query:

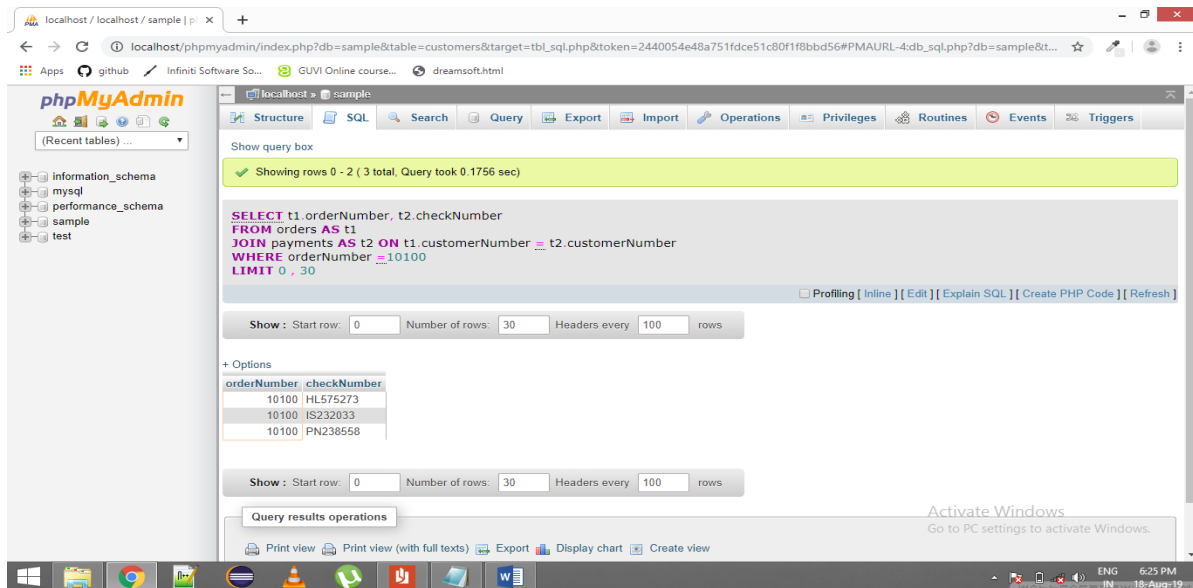
```
SELECT t1.orderNumber, SUM(t3.amount) AS total_paid_amount_for_the_order_10100
FROM orders AS t1
INNER JOIN orderdetails AS t4 ON t1.orderNumber = t4.orderNumber
INNER JOIN products AS t5 ON t4.productCode = t5.productCode
INNER JOIN customers AS t2 ON t1.customerNumber = t2.customerNumber
INNER JOIN payments AS t3 ON t3.customerNumber = t2.customerNumber
WHERE t1.orderNumber = 10100;
```

Below the query box, a status bar indicates: "Showing rows 0 - 0 ( 1 total, Query took 0.0009 sec)". Below this, the query results are displayed in a table with two columns: `orderNumber` and `total_paid_amount_for_the_order_10100`. The table contains one row with the values `10100` and `465797.16`.

At the bottom of the interface, there is a taskbar with various application icons and a system tray showing the date and time: "18-Aug-19 10:35 PM".

### QUESTION NO: 3

SELECT t1.orderNumber, t2.checkNumber from orders as t1 join payments as t2 on  
t1.customerNumber=t2.customerNumber where orderNumber=10100;

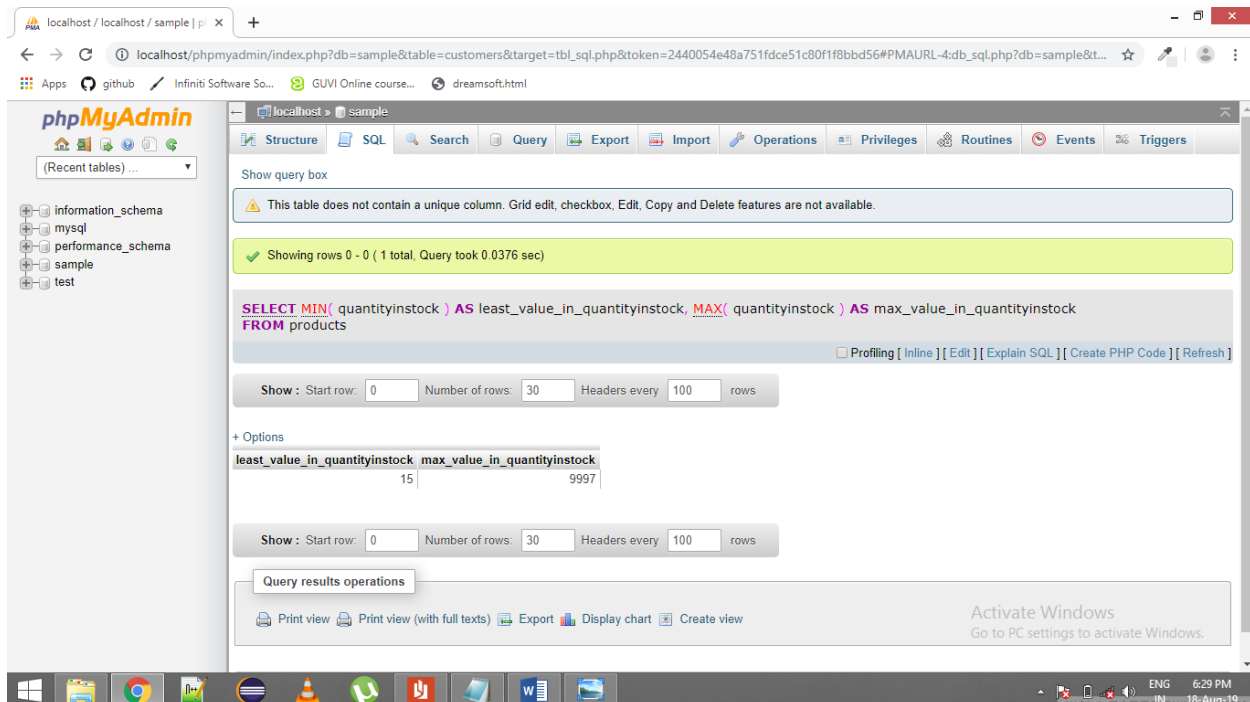


The screenshot shows the phpMyAdmin interface with a successful SQL query execution. The query is: `SELECT t1.orderNumber, t2.checkNumber FROM orders AS t1 JOIN payments AS t2 ON t1.customerNumber = t2.customerNumber WHERE orderNumber = 10100 LIMIT 0, 30`. The result shows 3 rows.

orderNumber	checkNumber
10100	HL575273
10100	IS232033
10100	PN238558

### QUESTION NO: 4

SELECT min(quantityInStock) as least\_value\_in\_quantityInStock, max(quantityInStock) as  
max\_value\_in\_quantityInStock from products;



The screenshot shows the phpMyAdmin interface with a successful SQL query execution. The query is: `SELECT MIN( quantityinstock ) AS least_value_in_quantityinstock, MAX( quantityinstock ) AS max_value_in_quantityinstock FROM products`. The result shows 2 rows.

least_value_in_quantityinstock	max_value_in_quantityinstock
15	9997

## QUESTION NO: 5

SELECT t1.productCode,t1.productLine,t2.htmlDescription FROM products as t1 INNER JOIN productlines as t2 ON t1.productLine=t2.productLine WHERE t1.productLine=(SELECT productLine FROM productlines WHERE productLine='Classic Cars') AND (productCode='S12\_3380'OR productCode='S12\_3891' OR productCode='S12\_3990') ;

The screenshot shows the phpMyAdmin interface with the 'sample' database selected. The SQL tab is active, displaying the following query:

```
SELECT t1 productCode, t1 productLine, t2.htmlDescription
FROM products AS t1
INNER JOIN productlines AS t2 ON t1.productLine = t2.productLine
WHERE t1.productLine = (
SELECT productLine
FROM productlines
WHERE productLine = 'Classic Cars' )
```

The query results are displayed in a table with 3 rows and 3 columns:

productCode	productLine	htmlDescription
S12_3380	Classic Cars	NULL
S12_3891	Classic Cars	NULL
S12_3990	Classic Cars	NULL

## QUESTION NO: 6

SELECT count(\*) as NULL\_COUNT from productlines where htmlDescription is null;

The screenshot shows the phpMyAdmin interface with the 'sample' database selected. The SQL tab is active, displaying the following query:

```
SELECT COUNT(*) AS NULL_COUNT
FROM productlines
WHERE htmlDescription IS NULL
```

The query results are displayed in a table with 1 row and 1 column:

NULL_COUNT
7

## QUESTION NO: 7

SELECT DATE\_FORMAT("2019-07-18","%d-%b-%a") as output;

The screenshot shows the phpMyAdmin web interface in a browser. The left sidebar displays the database structure with 'sample' selected. The main panel shows the SQL query editor with the query: `SELECT DATE_FORMAT( "2019-07-18", "%d-%b-%a" ) AS output`. The query has been executed successfully, and the results are displayed in a table with one row: `18-Jul-Thu`. The status bar at the bottom indicates the system is running on Windows.

localhost / localhost / sample | p | x

localhost/phpmyadmin/index.php?db=sample&table=customers&target=tbl\_sql.php&token=2440054e48a751fdce51c80f1f8bbd56#PMAURL-4:db\_sql.php?db=sample&t...

phpMyAdmin

(Recent tables) ...

- information\_schema
- mysql
- performance\_schema
- sample
- test

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers

Show query box

Showing rows 0 - 0 ( 1 total, Query took 0.0254 sec)

`SELECT DATE_FORMAT( "2019-07-18", "%d-%b-%a" ) AS output`

Profiling [ Inline ] [ Edit ] [ Explain SQL ] [ Create PHP Code ] [ Refresh ]

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

+ Options

output

18-Jul-Thu

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

Query results operations

Print view Print view (with full texts) Export Display chart Create view

Activate Windows  
Go to PC settings to activate Windows.

Windows taskbar: 6:25 PM, 18-Aug-19

## QUESTION NO: 8

SELECT amount from payments order by amount desc limit 2,1;

The screenshot shows the phpMyAdmin web interface in a browser. The left sidebar displays the database structure with 'sample' selected. The main panel shows the SQL query editor with the query: `SELECT amount FROM payments ORDER BY amount DESC LIMIT 2, 1`. The query has been executed successfully, and the results are displayed in a table with one row: `111654.40`. The status bar at the bottom indicates the system is running on Windows.

localhost / localhost / sample | p | x

localhost/phpmyadmin/index.php?db=sample&table=customers&target=tbl\_sql.php&token=2440054e48a751fdce51c80f1f8bbd56#PMAURL-4:db\_sql.php?db=sample&t...

phpMyAdmin

(Recent tables) ...

- information\_schema
- mysql
- performance\_schema
- sample
- test

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers

Show query box

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

Showing rows 2 - 2 ( 1 total, Query took 0.0008 sec) [amount: 111654.40 - 111654.40]

`SELECT amount  
FROM payments  
ORDER BY amount DESC  
LIMIT 2, 1`

Profiling [ Inline ] [ Edit ] [ Explain SQL ] [ Create PHP Code ] [ Refresh ]

+ Options

amount

111654.40

Query results operations

Print view Print view (with full texts) Export Display chart Create view

Activate Windows  
Go to PC settings to activate Windows.

Windows taskbar: 6:26 PM, 18-Aug-19

## QUESTION NO: 9

SELECT contactFirstName from customers where contactFirstName like 'C%a '

The screenshot shows the phpMyAdmin web interface in a browser. The address bar indicates the URL is `localhost/phpmyadmin/index.php?db=sample&table=customers&target=tbl_sql.php&token=2440054e48a751fdce51c80f1f8bbd56#PMAURL-4:db_sql.php?db=sample&t...`. The left sidebar shows the database structure with 'sample' selected. The main panel displays the 'customers' table. A message states: 'This table 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 - 0 ( 1 total, Query took 0.0006 sec)'. The SQL query is shown in a text area: 

```
SELECT contactFirstName
FROM customers
WHERE contactFirstName LIKE "C%a_"
LIMIT 0, 30
```

 Below the query, there are controls for 'Show' (Start row: 0, Number of rows: 30, Headers every: 100 rows). Under the '+ Options' section, the 'contactFirstName' column is highlighted, and the value 'Christina' is displayed. At the bottom, there are links for 'Query results operations' including 'Print view', 'Print view (with full texts)', 'Export', 'Display chart', and 'Create view'. The Windows taskbar at the bottom shows the time as 6:25 PM on 18-Aug-19.

## QUESTION NO: 10

SELECT productLines.productLine,productLines.textDescription,productLines.htmlDescription,  
productLines.image FROM `productlines` INNER JOIN products ON products.productLine =  
productlines.productLine WHERE productLines.productLine <> products.productLine

The screenshot shows the phpMyAdmin web interface in a browser. The address bar shows the URL: `localhost/phpmyadmin/index.php?db=sample&table=customers&target=tbl_sql.php&token=86cdf9c63e3c906fab02d2fec4b7b89#PMAURL-3:db_sql.php?db=sample&t...`. The interface has a sidebar on the left with a tree view showing databases: `information_schema`, `mysql`, `performance_schema`, `sample`, and `test`. The main panel has tabs for `Structure`, `SQL`, `Search`, `Query`, `Export`, `Import`, `Operations`, `Privileges`, `Routines`, `Events`, and `Triggers`. The `SQL` tab is active, displaying a green message: "MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 sec)". Below this, the SQL query is shown in a text area: 

```
SELECT productLines productLine, productLines textDescription, productLines htmlDescription, productLines image
FROM `productlines`
INNER JOIN products ON products productLine = productlines productLine
WHERE productLines productLine <> products productLine
LIMIT 0 , 30
```

 At the bottom of the query area are links: `Profiling`, `Edit`, `Explain SQL`, `Create PHP Code`, and `Refresh`. Below the query area is a "Show query box" label and a text input field. The Windows taskbar is visible at the bottom with icons for File Explorer, Chrome, and other applications. The system tray shows the date and time: "19-Aug-19" and "1:00 PM".