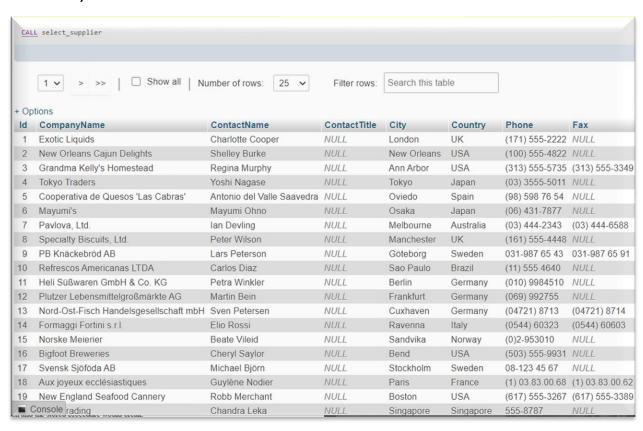
Stored Procedure

1. Find all the details of suppliers

DELIMITER//

CREATE PROCEDURE select_supplier()
BEGIN
SELECT*FROM supplier;

END// DELIMITER;



2. Find all the details of suppliers who are from "UK"?

DELIMITER //
CREATE PROCEDURE supplier_by_country (IN prefered_country VARCHAR (40))
BEGIN
SELECT*FROM supplier where Country=prefered_country;
END//
DELIMITER;



3. Find the phone number of the company name "Tokyo Traders"

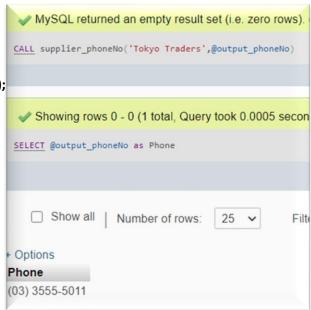
DELIMITER //
CREATE PROCEDURE supplier_phoneNo
(IN search_supplier VARCHAR (40),
OUT output_phoneNo VARCHAR (30))

BEGIN

SELECT phone INTO output_phoneNo FROM supplier where CompanyName=search_supplier; END// DELIMITER;

Executing the Procedure

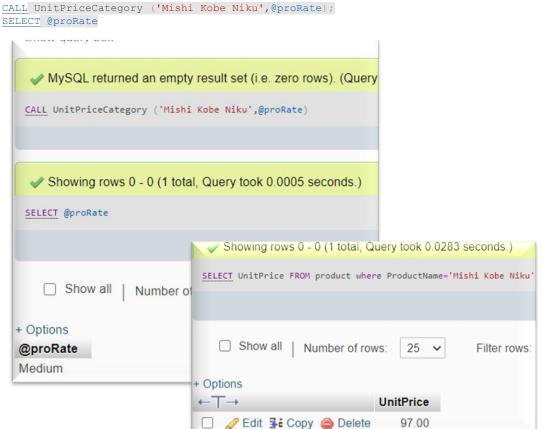
CALL supplier_phoneNo('Tokyo Traders',@output_phoneNo); SELECT @output_phoneNo as Phone;



4. Create a Stored Procedure 'UnitPriceCategory' where the unit price of product is more than 100 as 'High', more than 50 as 'Medium' and less than 50 as 'Low'.

```
DELIMITER //
CREATE PROCEDURE UnitPriceCategory
(IN search_product VARCHAR (40),
OUT proRate VARCHAR (30))
BEGIN
DECLARE product_price INT;
SELECT UnitPrice INTO product_price FROM product WHERE ProductName=search_product;
IF product_price > 100 THEN
SET proRate = 'High';
ELSEIF (product_price <= 100 AND product_price >= 50) THEN
SET proRate = 'Medium';
ELSEIF (product_price < 50) THEN
SET proRate = 'Low';
END IF;
END//
DELIMITER;
```

Procedure Calling:



5) Product supplying companies in various countries are supplying different products. Assume that you need to identify which countries are leading the product supply chain. Based on the count of different products they are supplying; you need to apply below rating criteria.

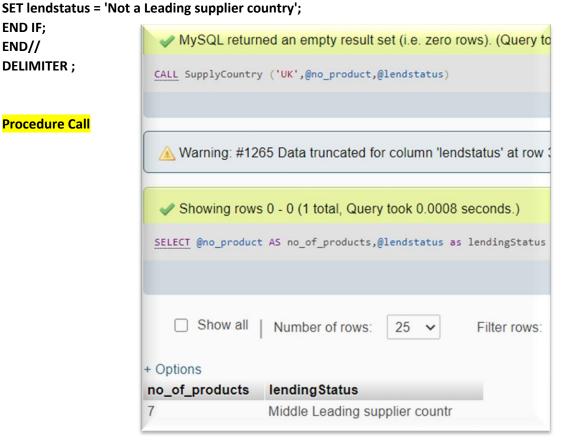
CREATE PROCEDURE SupplyCountry (IN sup_country VARCHAR (40), OUT no_product VARCHAR (40), **OUT lendstatus VARCHAR (30))**

BEGIN SELECT COUNT(product.SupplierId) into no_product **FROM** product INNER JOIN supplier ON product.SupplierId = supplier.Id WHERE supplier.Country=sup_country LIMIT 10;

IF no_product > 9 THEN SET lendstatus = 'Top Leading supplier country'; ELSEIF (no_product <= 9 AND no_product >= 5) THEN SET lendstatus = 'Middle Leading supplier country'; ELSEIF (no_product < 5) THEN

END IF; END// **DELIMITER**;

Procedure Call



6) Create the Stored Procedure 'OrderItemCount' to get the count of items in a given customer's purchase order.

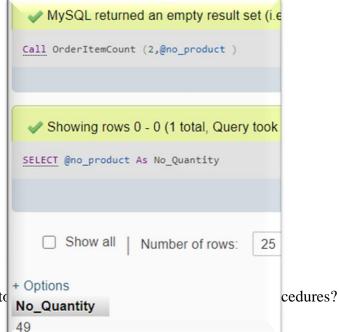
DELIMITER //
CREATE PROCEDURE OrderItemCount
(IN cus_order VARCHAR (40),
OUT no_product VARCHAR (40))

BEGIN
SELECT
SUM(orderitem.Quantity) into no_product
FROM
orderitem INNER JOIN purchase_order ON
purchase_order.Id = orderitem.OrderId
WHERE
purchase_order.Id=cus_order;

END//
DELIMITER;

When Procedure Called

Call OrderItemCount (2,@no_product); SELECT @no_product As No_Quantity; (2 Is Customer OrderNumber)



7) What are the advantages of having sto

1. Better Performance -

The procedure calls are quick and efficient as stored procedures are compiled once and stored in executable form. Hence the response is quick. The executable code is automatically cached, hence lowers the memory requirements.

2. Ease of Use -

To create a stored procedure, one can use any Java Integrated Development Environment (IDE). Then, they can be deployed on any tier of network architecture.

3. Scalability -

Stored procedures increase scalability by isolating application processing on the server.

4. Maintainability -

Maintaining a procedure on a server is much easier then maintaining copies on various client machines, this is because scripts are in one location.