UNIVERSITY OF MORATUWA

Faculty of Information Technology

B.Sc. (Hons) ITM
Level 2 Semester 2

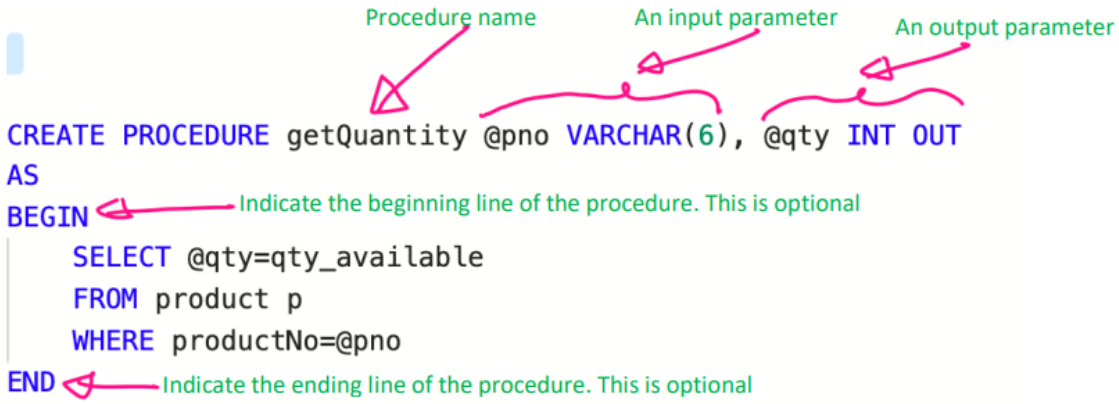
IN2410 – Database Systems

Practical 4 – Stored Procedures

A stored procedure is a piece of prepared SQL code that may be saved and utilized repeatedly. Therefore, if you have a frequently used SQL query/queries, save it as a stored procedure and then call it to perform it. Additionally, you can pass parameters to a stored procedure, allowing the stored procedure to operate on the parameter value(s) passed. The parameters might be either input or output. You can use input parameters to pass values to the procedure and output parameters to pass results out.

It's important to note that a stored procedure may return an integer value as well.

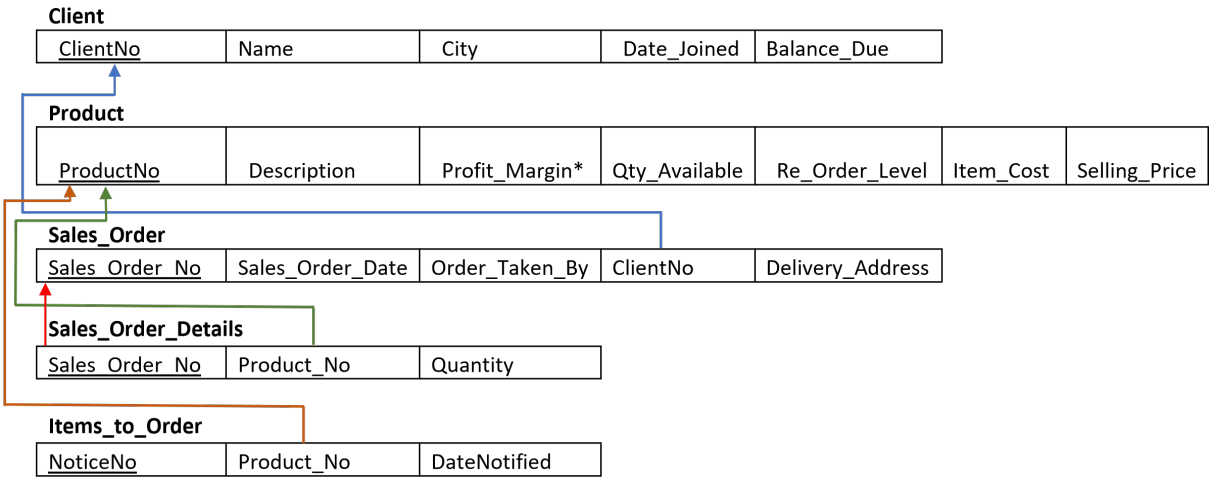
Example:




```
-- execution of stored procedure. Note this is a comment line
DECLARE @Quantity_Available INT
EXEC getQuantity 'p0001', @Quantity_Available OUT
PRINT @Quantity_Available
```

Stored Procedures

Use the following relational schema and answer the questions mentioned below.



1. Write a stored procedure to display information for a given product number.

2. Write a stored procedure to retrieve the Re_Order_Level for a given product number.
   Note: return the Re_Order_Level.

3. Write a stored procedure to retrieve the Description and Qty_Available for a given product number.
   Note: retrieve the Description and Qty_Available as output parameters.

4. Write a stored procedure to update the Selling_Price for a given ProductNo.
   Note: Selling_Price should be higher than the Item_Cost, otherwise display an error message called "Selling price should be greater than the item cost. Record update terminated".

5. Write a stored procedure to insert a record to the Sales_Order table.

6. Write a stored procedure to insert a record to the Sales_Order and Sales_Order_Details tables.
   Hint: The user will send the relevant data as input parameters as follows,
   Sales_Order_No, Sales_Order_Date, Order_Taken_By, ClientNo, Delivery_Address, Product_No, and Quantity.

7. Write a stored procedure to insert a record to the Client, Sales_Order, and Sales_Order_Details tables.
   Hint: The user will send the relevant data as input parameters as follows,
   ClientNo, Name, City, Date_Joined, Balance_Due, Sales_Order_No, Sales_Order_Date, Order_Taken_By, Delivery_Address, Product_No and Quantity.
   Note: If client details already exists, insert details only to the Sales_Order and Sales_Order_Details tables.