



# Stored Procedure Challenges

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## Note!

- Make sure you have created the oes.bank\_accounts and oes.bank\_transactions tables before doing the third challenge.
- To create the tables, execute the SQL file attached as a resource to this lecture.

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## Challenge 1

Create a stored procedure called `oes.getQuantityOnHand` that returns the `quantity_on_hand` in the `oes.inventories` table for a given `product_id` and `warehouse_id`.

Execute the stored procedure to return the quantity on hand of product id 4 at warehouse id 2.

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## Challenge 2

Create a stored procedure called `oes.getCurrentProducts` that returns current products (`discontinued = 0`) in the `oes.products` table. In addition, define two input parameters:

- A parameter called `@product_name` of data type `VARCHAR(100)`. Allow users to wildcard search on the `product_name`.
- A parameter called `@max_list_price` of data type `DECIMAL(19,4)`. Allow users to only include current products that have a `list_price` that is less than or equal to a specified value for this parameter.

Execute the stored procedure to return current products that contain the word 'Drone' and have a maximum price of \$700.

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## Challenge 3

Create a stored procedure called `oes.transferFunds` that transfers money from one bank account to another bank account by updating the balance column in the `oes.bank_accounts` table. Also, insert the bank transaction details into `oes.bank_transactions` table. Define three input parameters:

- `@withdraw_account_id` of data type **INT**
- `@deposit_account_id` of data type **INT**
- `@transfer_amount` of data type **DECIMAL(30,2)**

Test the stored procedure by transferring \$100 from Anna's bank account to Bob's account.