

CSIS05I Database Systems II

Lab (10)

SQL Functions, Database Security and Jobs - Solutions

Exercise

1. Create a function named 'average' that calculates the average of two numbers taken from the user as an input. Display the output in float, under the alias of Average Point.

```
create function average (@parameter1 float, @parameter2 float)
returns float
as
begin
declare @average float
select @average = (@parameter1 + @parameter2) / 2
return @average
end
select dbo.average(7,10) As AveragePoint;
```

2. Grant multiple Privileges to the users on the Product table.

```
GRANT SELECT, INSERT, DELETE, UPDATE ON Product TO public;
```

3. Grant a privilege to public on the 'average' function.

```
GRANT execute ON dbo.average TO public;
```

4. Revoke Select, Insert, Delete and update on table Customer from Public.

```
REVOKE SELECT, INSERT, DELETE, UPDATE ON Customer FROM Public;
```

5. Create a Job that schedule a function that retrieves the minimum quantity of a product, schedule this job to run recurrently on daily basis.

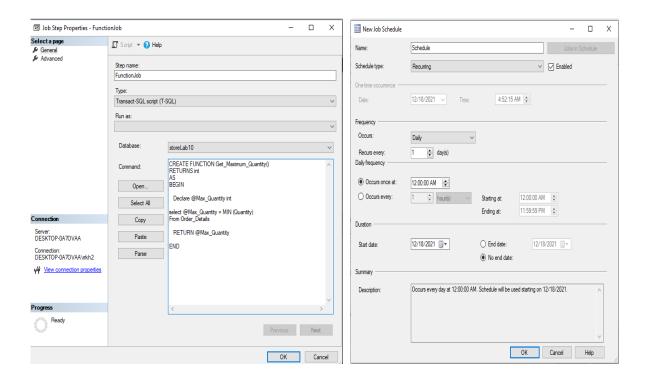
SQL Command:

```
CREATE FUNCTION Get_MinimumQuantity()
RETURNS int
AS
BEGIN

   Declare @Min_Quantity int

select @Min_Quantity = MIN (Quantity)
From Order_Details
   RETURN @Min_Quantity
END
```

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Testing the Function:

SELECT dbo.Get_MinimumQuantity() AS 'Minimum Quantity'

