

Microsoft SQL Server Management Studio interface showing a query execution and a Python script execution.

**SQL Query:**

```
USE jsoliman354;
IF EXISTS (
    SELECT * FROM sysobjects WHERE id = object_id(N'AverageCost')
    AND xtype IN (N'FN', N'IF', N'TF')
)
DROP FUNCTION AverageCost
GO
CREATE FUNCTION AverageCost (@color VARCHAR(30))
RETURNS TABLE
RETURN
(
    SELECT AVG(P.StandardCost) as 'AverageCost'
    FROM AdventureWorks.Production.Product P
    WHERE P.Color = @color
)
GO
SELECT * FROM dbo.AverageCost('Red')
```

**Python Script (sourceII.py):**

```
import pymysql
conn = pymysql.connect(host='cypress.csil.sfu.ca', user='a_jsoliman', password='
cur = conn.cursor()
cur.execute("SELECT * from dbo.AverageCost('Red')")
for row in cur:
    print("The average cost of red parts are"),
    print(row[0])
conn.close()
```

**Results:**

AverageCost
858.178

**Python Shell Output:**

```
===== RESTART: U:\354\sourceII.py =====
The average cost of red parts are 858.18
```

**Properties Panel:**

Current connection parameters

- Aggregate Status
- Connection failure
- Elapsed time: 00:00:00.040
- Finish time: 11/4/2016 5:34:26 PM
- Name: cypress
- Rows returned: 1
- Start time: 11/4/2016 5:34:26 PM
- State: Open

Connection name: cypress (ADSFU/jsolima)

Connection Details

- Connection elapsed: 00:00:00.040
- Connection finish: 11/4/2016 5:34:26 PM
- Connection rows: 1
- Connection start: 11/4/2016 5:34:26 PM
- Connection state: Open

**Status Bar:** Query executed successfully. cypress (10.50 SP1) | ADSFU/jsoliman (226) | jsoliman354 | 00:00:00 | 1 rows