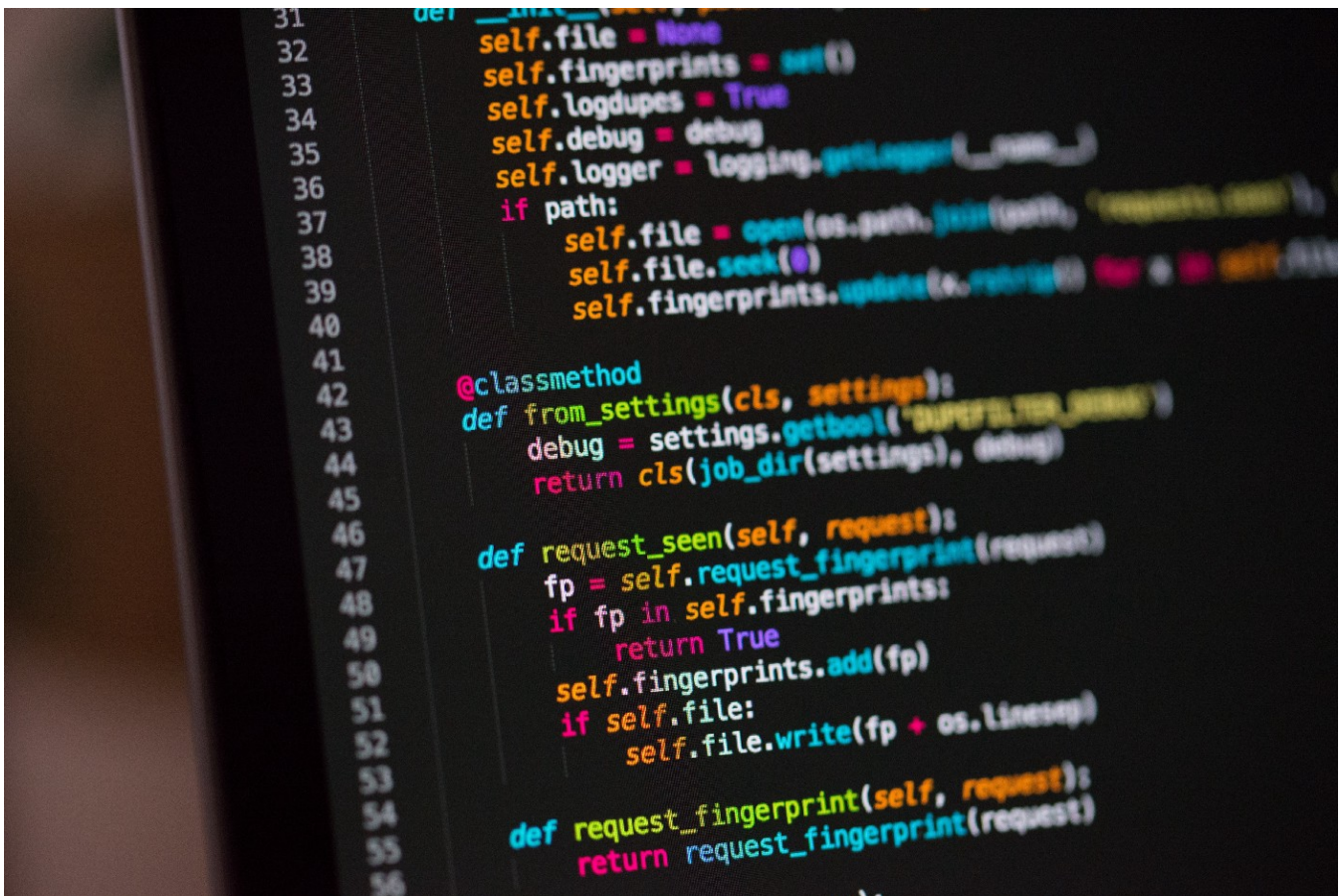


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# Connecting to SQL Server Database using Python

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You can use Python script to fetch data from SQL Server database.

This post will be useful to the beginners who want to work in Python and SQL Server.

Using Python script, you can manage your data between systems.

Below are the prerequisites to start the process.



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## Python 3.8.2

## Microsoft SQL Server Express

## Microsoft ODBC driver for SQL Server

Once Python is installed, open cmd.exe and move to Python -> Scripts folder and run this below command to install ODBC into it.

```
pip install pyodbc
```

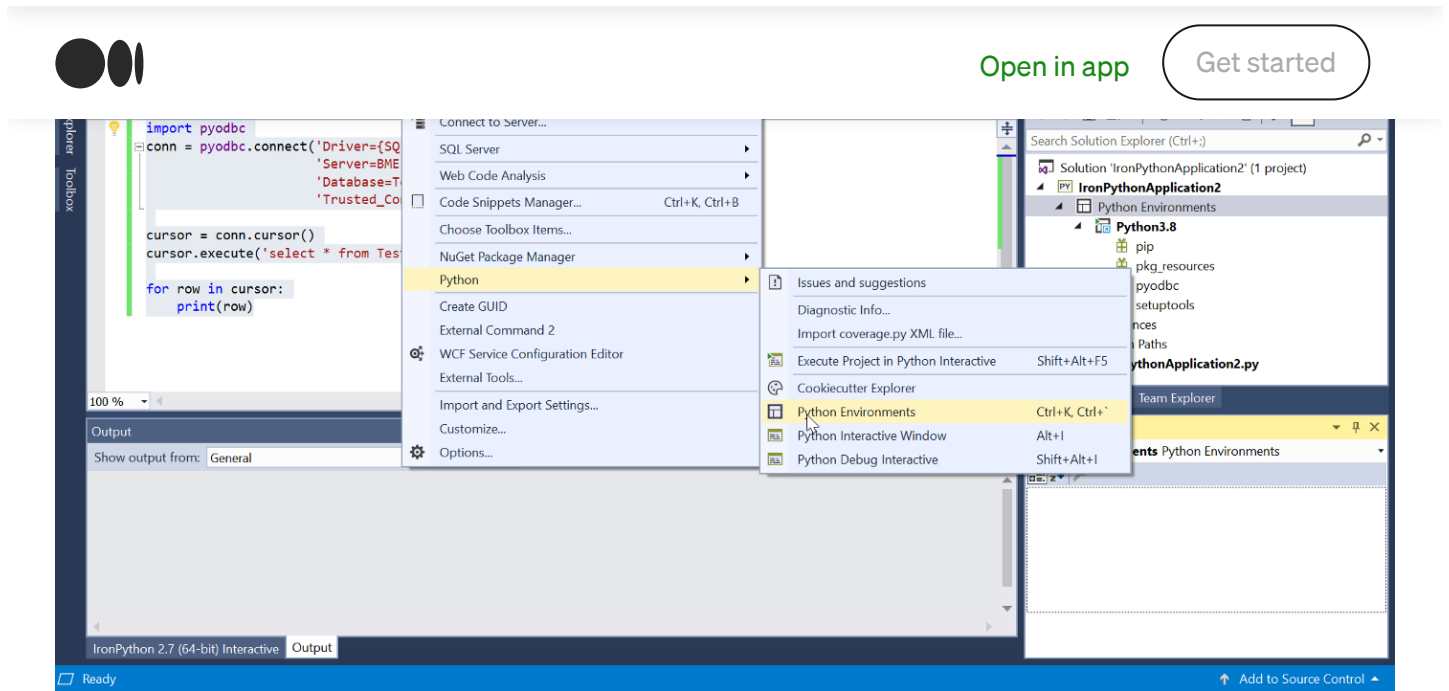
## **Sample database creation**

1. Launch **SQL Server Management Studio** — Run as an administrator.
2. Right-click on *Databases* and select *New Database*. Create a sample database in SQL Server (As an Admin user)
3. From *Tables* in the newly created database and Right-click and select *New Table*. Create a sample table and add some data in it.

## **Simple Python application with database connection**

1. Launch Visual Studio and create a simple Python application. (As an Admin user)
2. Make sure you have set the python environment for the application.
3. Use this sample code to test database connection in Python app:





```
import pyodbc
conn = pyodbc.connect('Driver={SQL
Server};Server=SERVER_NAME;Database=TestDb;Trusted_Connection=yes;')
cursor = conn.cursor()
cursor.execute('select * from TestDb.dbo.Person')
for row in cursor:
    print(row)
```

To run the application:

1. From *Solution Explorer* → select the python file you want to execute.
2. Right-click and select *Start without Debugging* option.
3. You can see the results in the command prompt window.



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```
import pyodbc
conn = pyodbc.connect('DRIVER={SQL Server};SERVER=localhost;DATABASE=Adventureworks;UID=sa;PWD=1qaz!@WSX;')
cursor = cursor.execute('select * from Adventureworks.HumanResources.Employee')
for row in cursor.fetchall():
    print(row)
```

Press any key to continue . . .

ID	Name	Value
100	ABC	Decimal('100.0000')
200	ABC	Decimal('100.0000')
300	ABC	Decimal('100.0000')
400	ABC	Decimal('100.0000')
500	ABC	Decimal('100.0000')
600	ABC	Decimal('100.0000')
400	ABC	Decimal('100.0000')
500	ABC	Decimal('100.0000')
600	ABC	Decimal('100.0000')

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