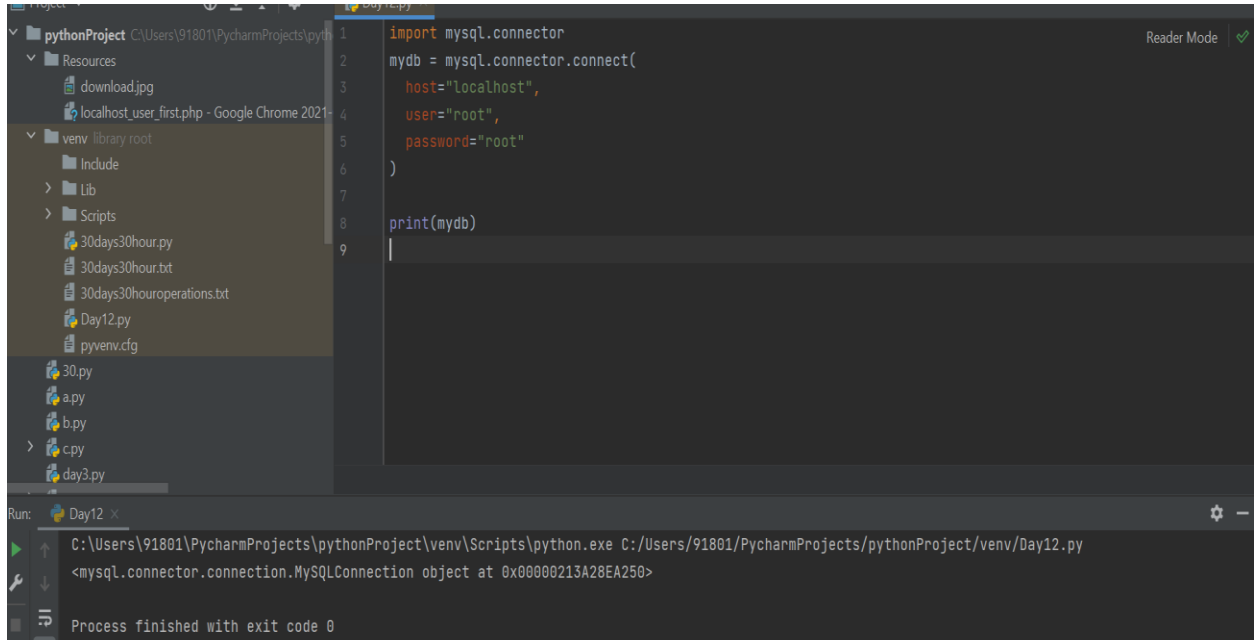


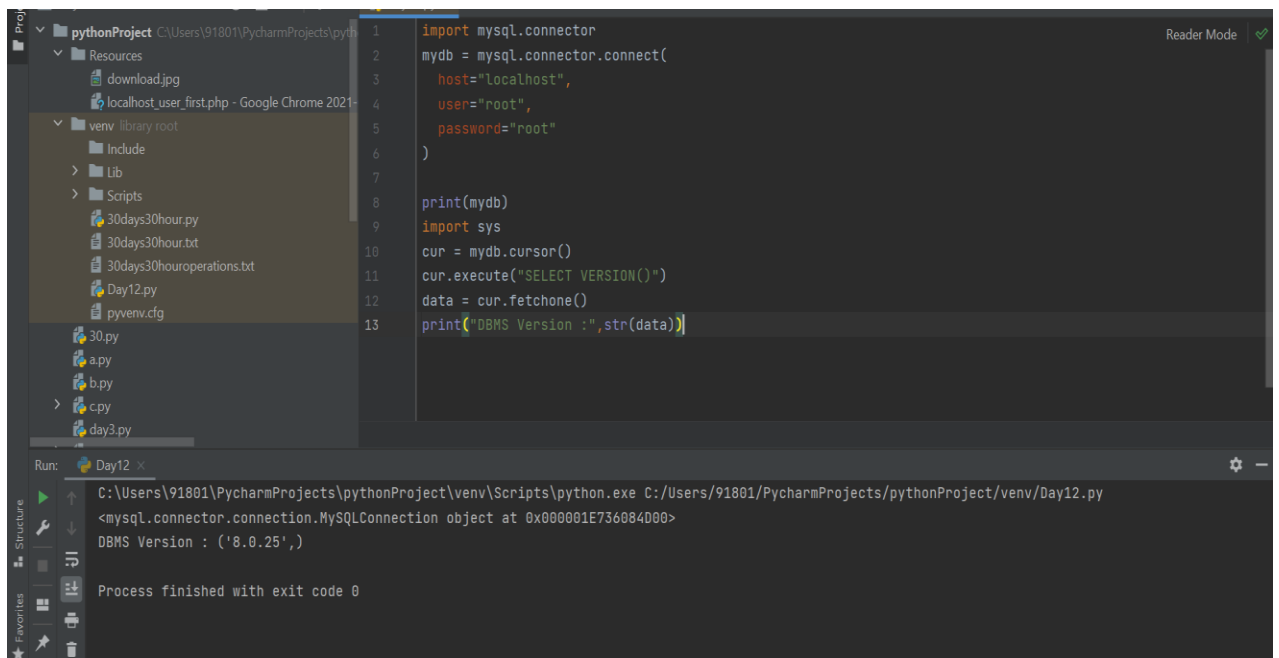
1. Create a connection for DB and print the version using a python program



The screenshot shows the PyCharm IDE with a project named 'pythonProject'. The file explorer on the left shows a directory structure with 'venv' and 'Scripts' folders. The main editor displays a Python script named 'Day12.py' with the following code:

```
1 import mysql.connector
2 mydb = mysql.connector.connect(
3     host="localhost",
4     user="root",
5     password="root"
6 )
7
8 print(mydb)
9
```

The Run window at the bottom shows the execution of the script. The command is: `C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py`. The output is: `<mysql.connector.connection.MySQLConnection object at 0x00000213A28EA250>`. The process finished with exit code 0.



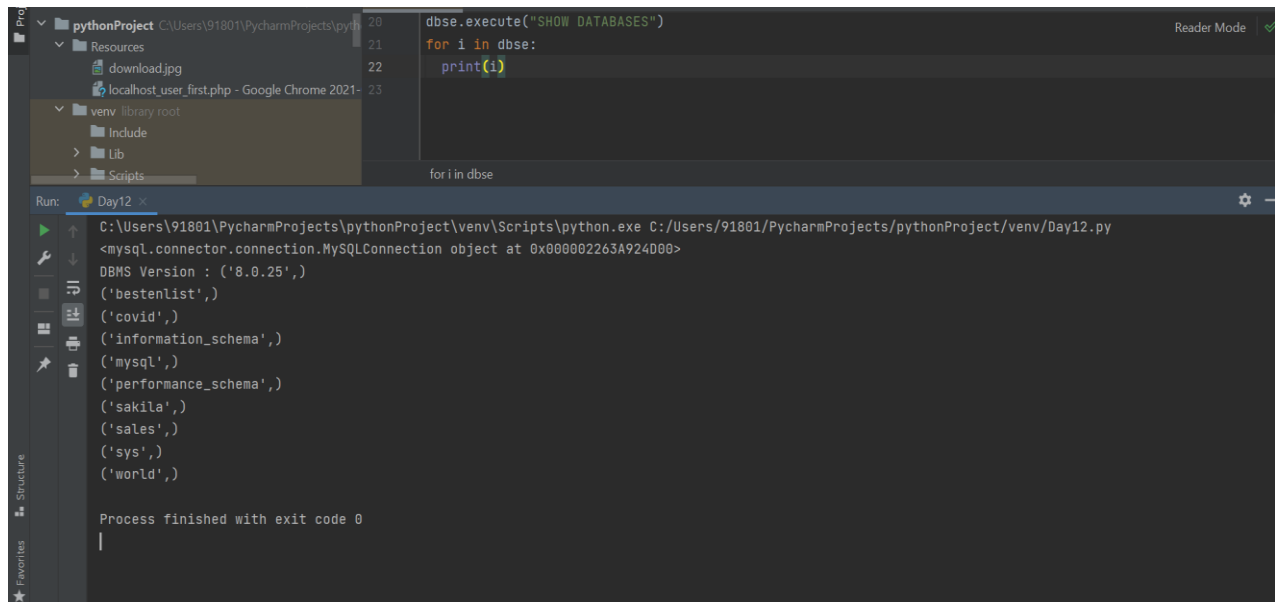
The screenshot shows the PyCharm IDE with the same project. The file explorer on the left shows the same directory structure. The main editor displays a Python script named 'Day12.py' with the following code:

```
1 import mysql.connector
2 mydb = mysql.connector.connect(
3     host="localhost",
4     user="root",
5     password="root"
6 )
7
8 print(mydb)
9 import sys
10 cur = mydb.cursor()
11 cur.execute("SELECT VERSION()")
12 data = cur.fetchone()
13 print("DBMS Version :",str(data))
```

The Run window at the bottom shows the execution of the script. The command is: `C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py`. The output is: `<mysql.connector.connection.MySQLConnection object at 0x000001E736084D00>` followed by `DBMS Version : ('8.0.25',)`. The process finished with exit code 0.

2. Create a multiple tables & insert data in table

1. Creating database [bestenlist] and adding 3 Tables [customers ,salesman, student]



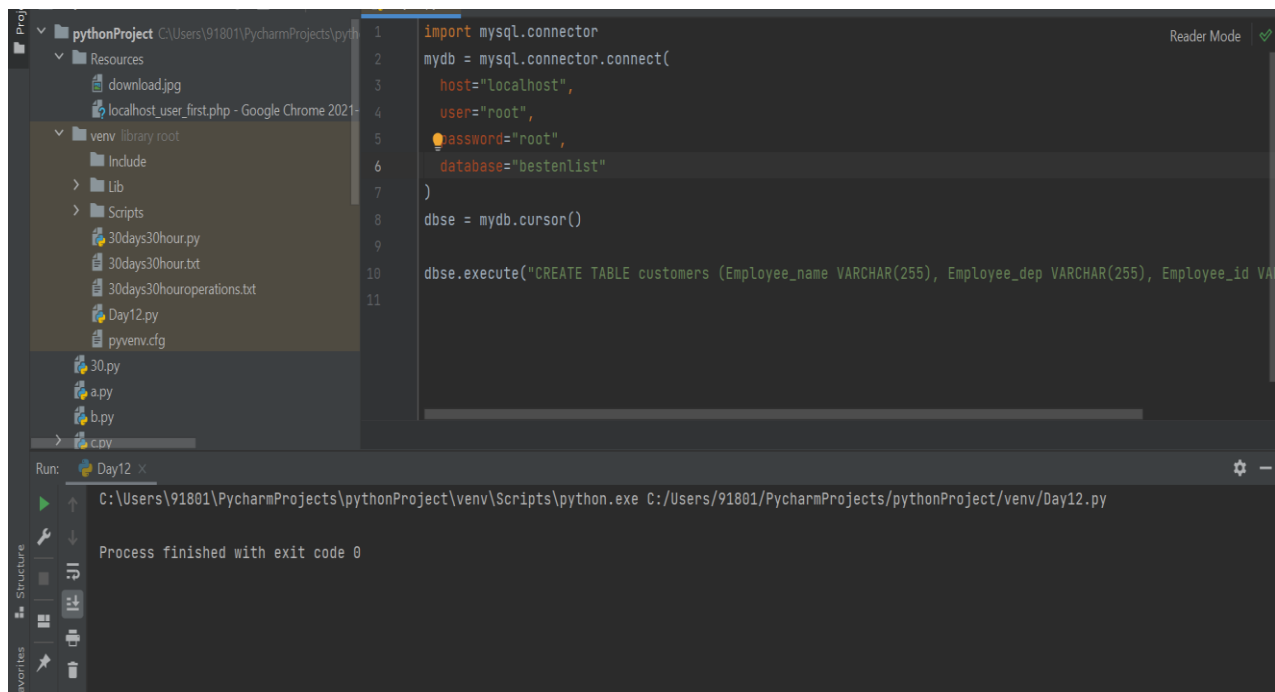
The screenshot shows the PyCharm IDE with a project named 'pythonProject'. The file explorer on the left shows a 'Scripts' folder containing 'Day12.py'. The main editor displays the following Python code:

```
20 dbse.execute("SHOW DATABASES")
21 for i in dbse:
22     print(i)
```

The Run window at the bottom shows the execution of 'Day12.py' using the Python interpreter in the virtual environment. The output is as follows:

```
<mysql.connector.connection.MySQLConnection object at 0x000002263A924D00>
DBMS Version : ('8.0.25',)
('bestenlist',)
('covid',)
('information_schema',)
('mysql',)
('performance_schema',)
('sakila',)
('sales',)
('sys',)
('world',)
```

The process finished with exit code 0.

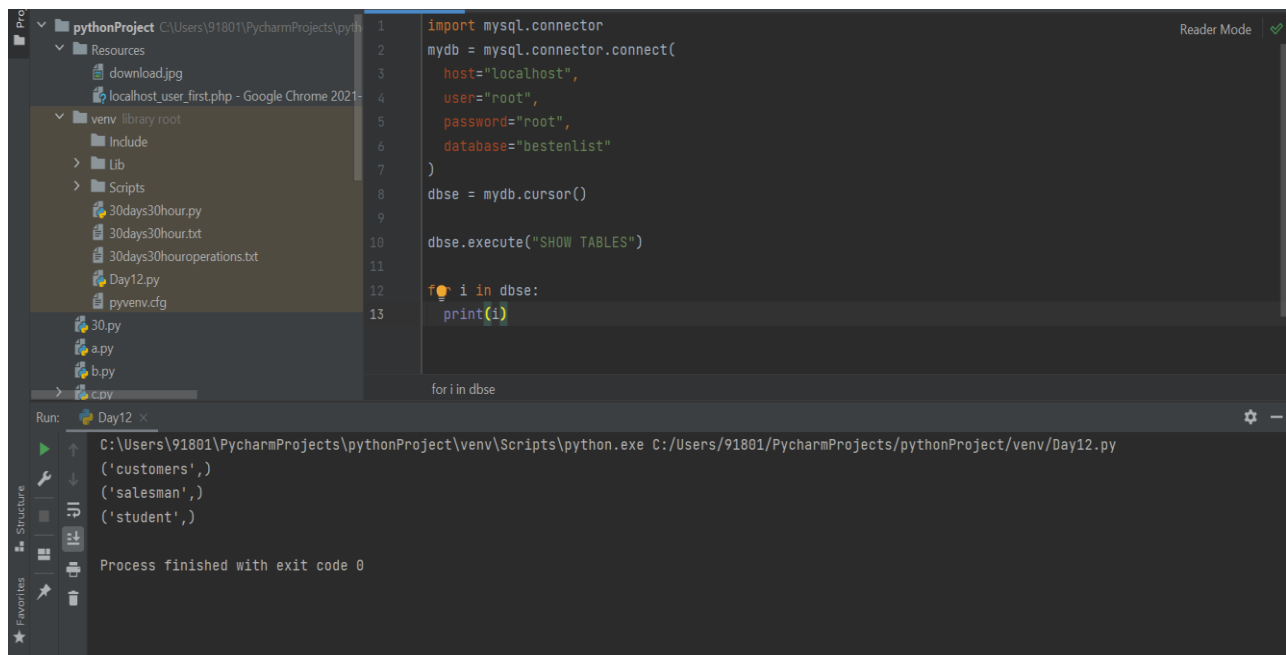
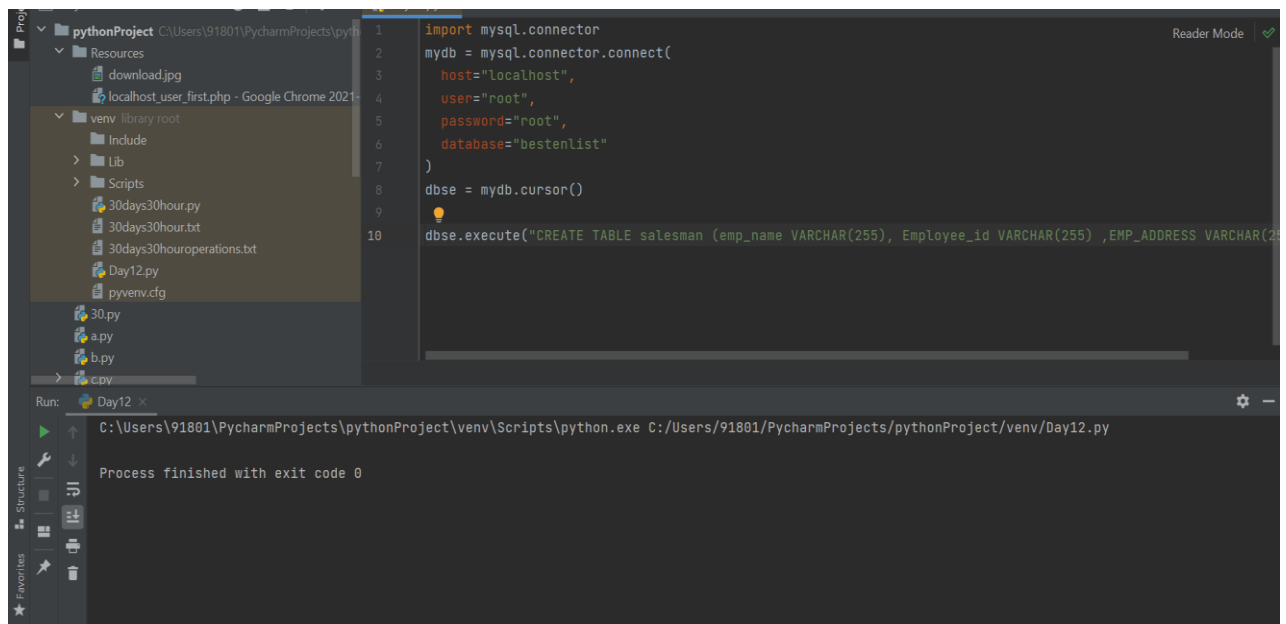


The screenshot shows the PyCharm IDE with the same project. The file explorer on the left shows the 'Scripts' folder with 'Day12.py' selected. The main editor displays the following Python code:

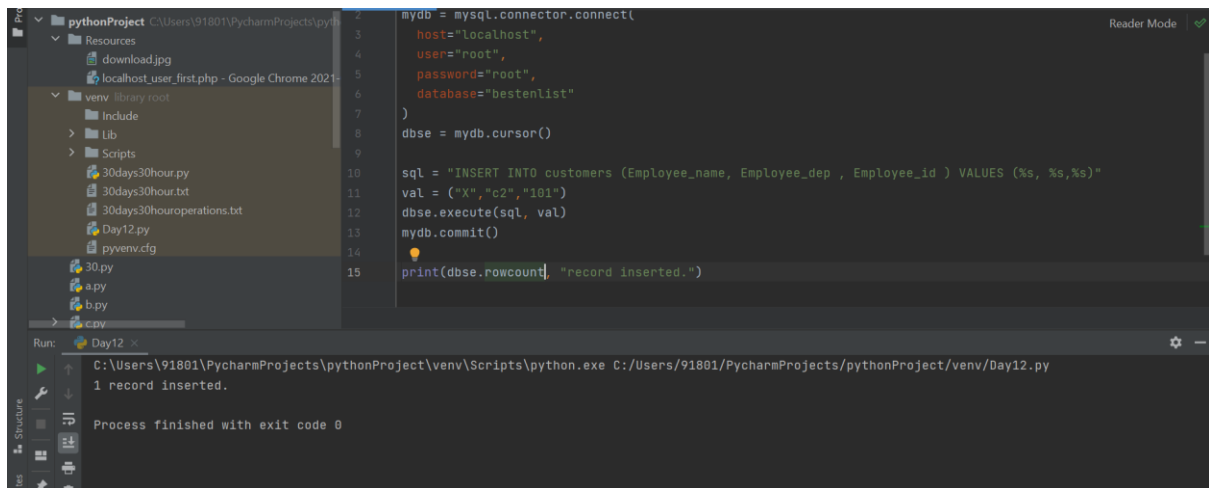
```
1 import mysql.connector
2 mydb = mysql.connector.connect(
3     host="localhost",
4     user="root",
5     password="root",
6     database="bestenlist"
7 )
8 dbse = mydb.cursor()
9
10 dbse.execute("CREATE TABLE customers (Employee_name VARCHAR(255), Employee_dep VARCHAR(255), Employee_id VARCHAR(255))")
11
```

The Run window at the bottom shows the execution of 'Day12.py' using the Python interpreter in the virtual environment. The output is:

```
Process finished with exit code 0
```

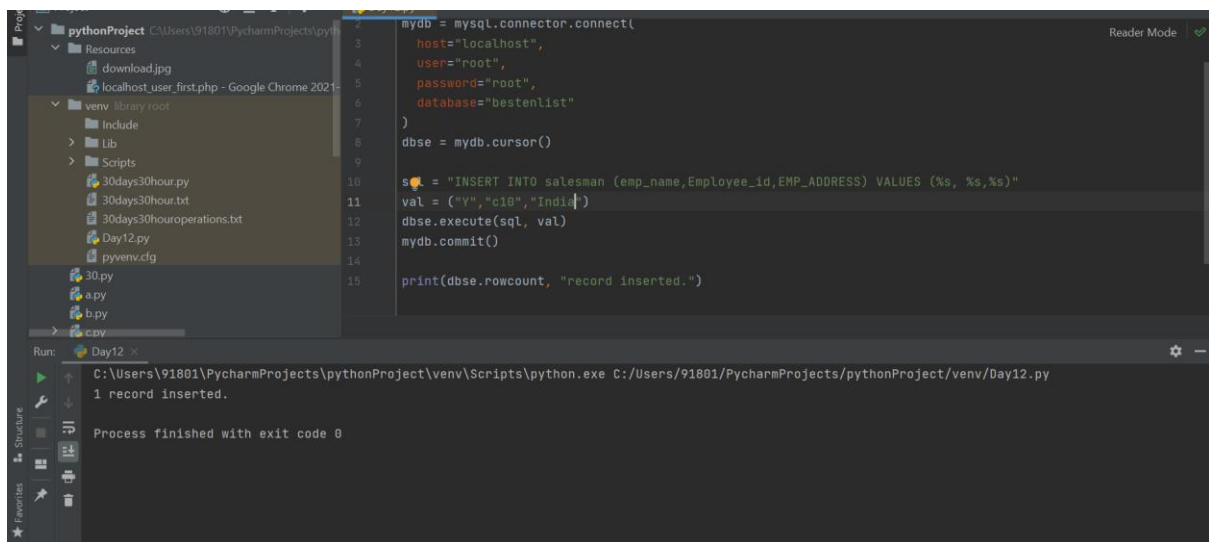


2.Inserting the Values into the table



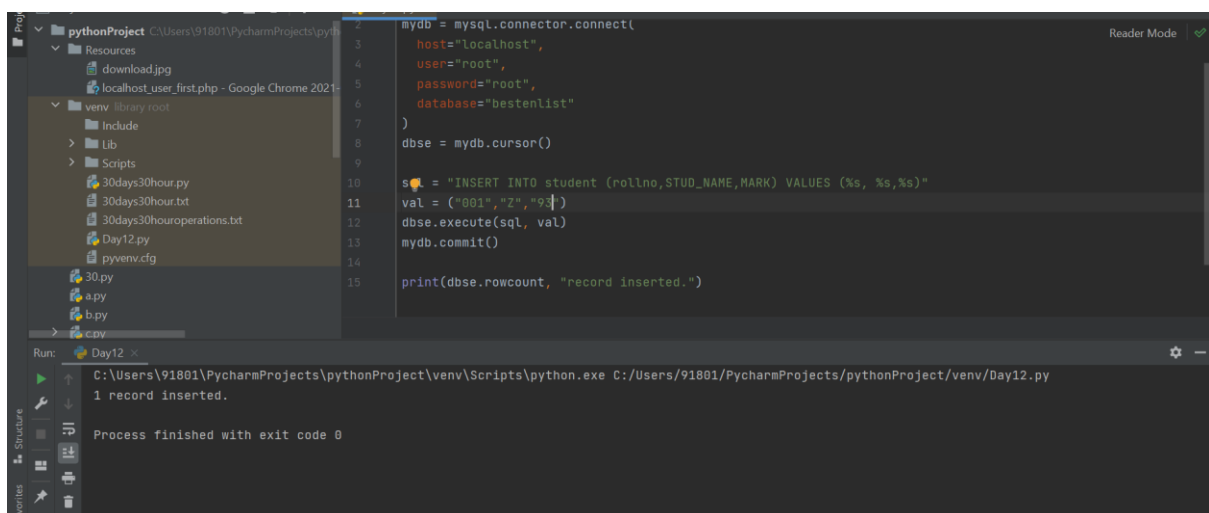
```
1 mydb = mysql.connector.connect(  
2     host="localhost",  
3     user="root",  
4     password="root",  
5     database="bestenlist"  
6 )  
7 dbse = mydb.cursor()  
8  
9  
10 sql = "INSERT INTO customers (Employee_name, Employee_dep , Employee_id ) VALUES (%s, %s,%s)"  
11 val = ("X","c2","101")  
12 dbse.execute(sql, val)  
13 mydb.commit()  
14  
15 print(dbse.rowcount, "record inserted.")
```

Run: Day12
C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py
1 record inserted.
Process finished with exit code 0



```
1 mydb = mysql.connector.connect(  
2     host="localhost",  
3     user="root",  
4     password="root",  
5     database="bestenlist"  
6 )  
7 dbse = mydb.cursor()  
8  
9  
10 sql = "INSERT INTO salesman (emp_name,Employee_id,EMP_ADDRESS) VALUES (%s, %s,%s)"  
11 val = ("Y","c10","India")  
12 dbse.execute(sql, val)  
13 mydb.commit()  
14  
15 print(dbse.rowcount, "record inserted.")
```

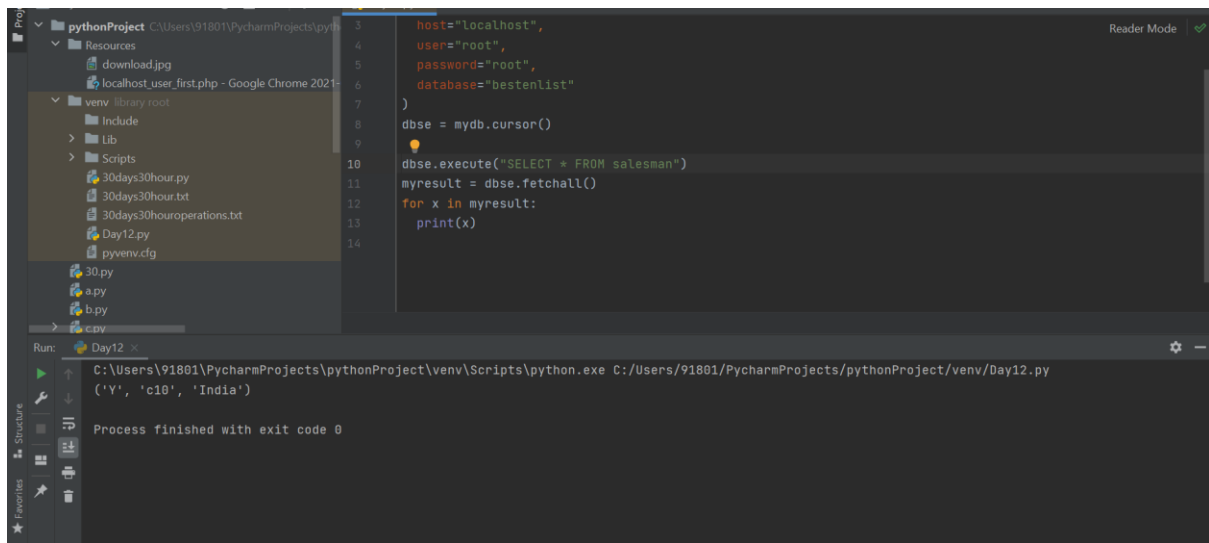
Run: Day12
C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py
1 record inserted.
Process finished with exit code 0



```
1 mydb = mysql.connector.connect(  
2     host="localhost",  
3     user="root",  
4     password="root",  
5     database="bestenlist"  
6 )  
7 dbse = mydb.cursor()  
8  
9  
10 sql = "INSERT INTO student (rollno,STUD_NAME,MARK) VALUES (%s, %s,%s)"  
11 val = ("001","Z","95")  
12 dbse.execute(sql, val)  
13 mydb.commit()  
14  
15 print(dbse.rowcount, "record inserted.")
```

Run: Day12
C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py
1 record inserted.
Process finished with exit code 0

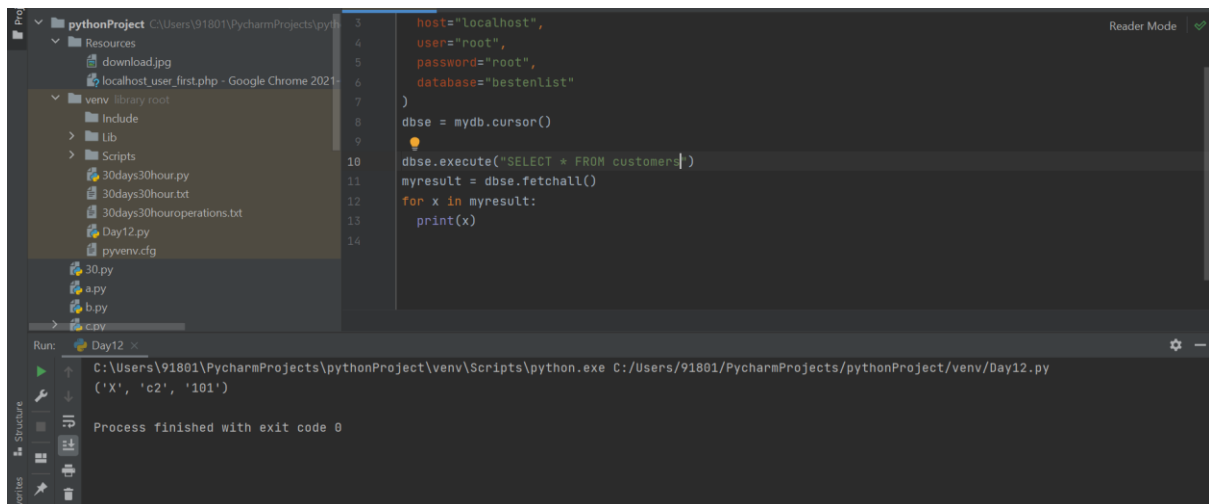
Viewing the Inserted Values From the Table[salesman,customers,student]



The screenshot shows the PyCharm IDE with a project named 'pythonProject'. The file explorer on the left shows a directory structure with files like 'download.jpg', 'localhost_user_first.php', and a 'venv' directory. The main editor displays a Python script with the following code:

```
3 host="localhost",
4 user="root",
5 password="root",
6 database="bestenlist"
7 )
8 dbse = mydb.cursor()
9
10 dbse.execute("SELECT * FROM salesman")
11 myresult = dbse.fetchall()
12 for x in myresult:
13     print(x)
14
```

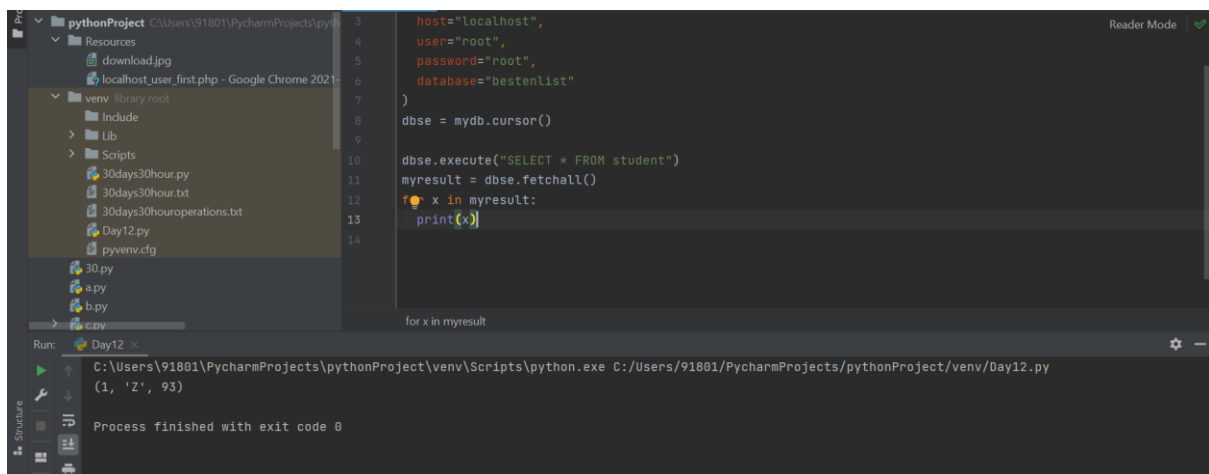
The Run window at the bottom shows the command: `C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py` and the output: `('Y', 'c10', 'India')`. The process finished with exit code 0.



The screenshot shows the PyCharm IDE with the same project. The main editor displays a Python script with the following code:

```
3 host="localhost",
4 user="root",
5 password="root",
6 database="bestenlist"
7 )
8 dbse = mydb.cursor()
9
10 dbse.execute("SELECT * FROM customers")
11 myresult = dbse.fetchall()
12 for x in myresult:
13     print(x)
14
```

The Run window at the bottom shows the command: `C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py` and the output: `('X', 'c2', '101')`. The process finished with exit code 0.

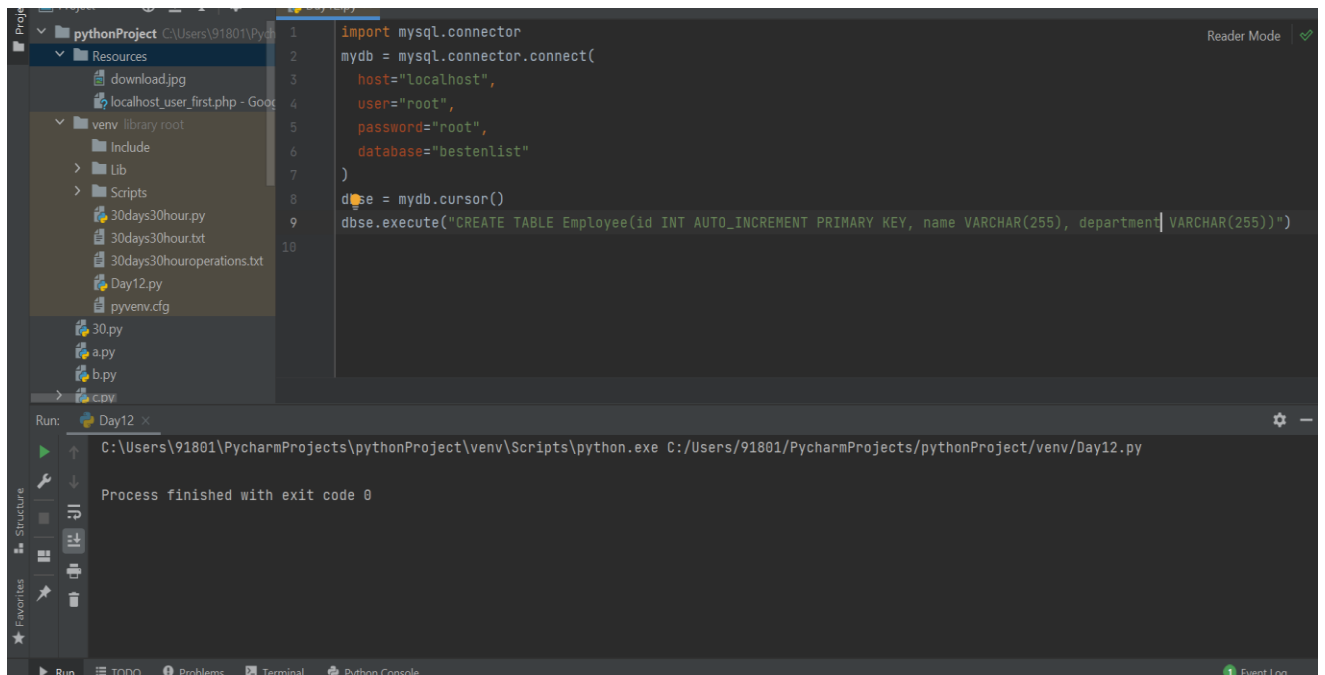


The screenshot shows the PyCharm IDE with the same project. The main editor displays a Python script with the following code:

```
3 host="localhost",
4 user="root",
5 password="root",
6 database="bestenlist"
7 )
8 dbse = mydb.cursor()
9
10 dbse.execute("SELECT * FROM student")
11 myresult = dbse.fetchall()
12 for x in myresult:
13     print(x)
14
```

The Run window at the bottom shows the command: `C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py` and the output: `(1, 'Z', 93)`. The process finished with exit code 0.

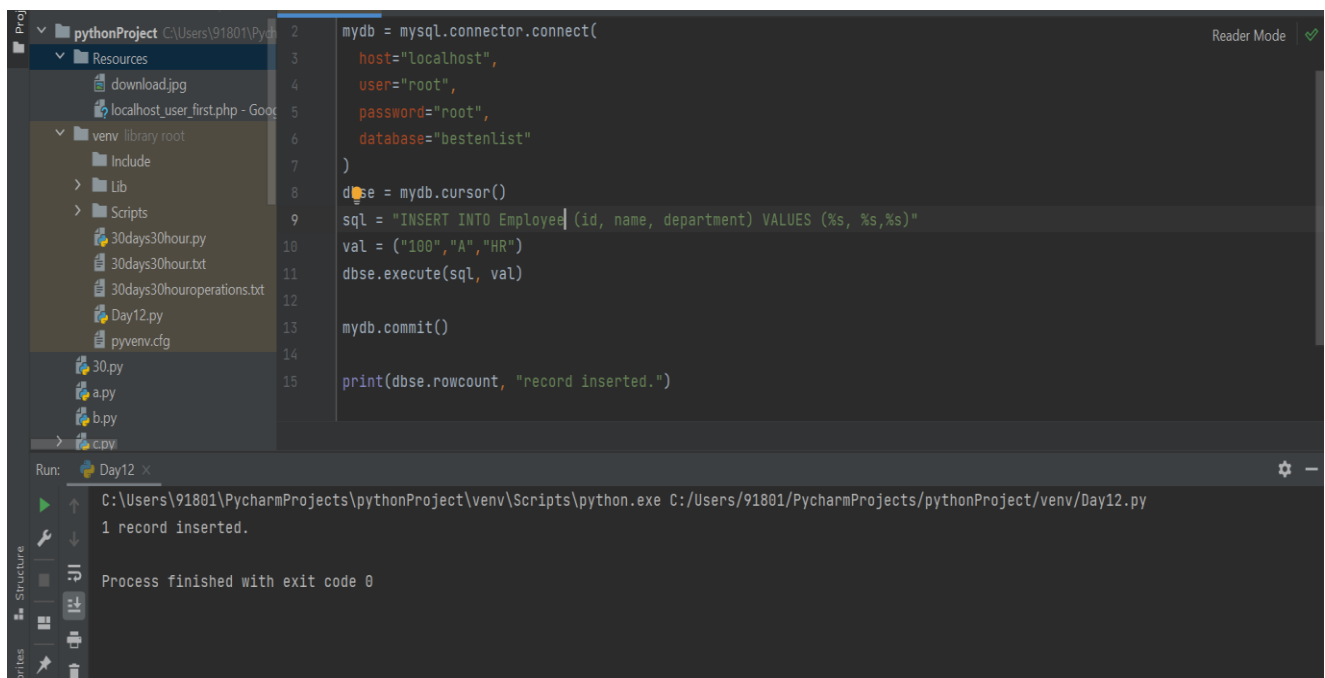
3. Create a employee table and read all the employee name in the table using for loop



The screenshot shows the PyCharm IDE with a Python project. The left sidebar displays the project structure, including a 'Scripts' folder with files like '30days30hour.py', '30days30hour.txt', '30days30houroperations.txt', 'Day12.py', and 'pyvenv.cfg'. The main editor window shows the following Python code:

```
1 import mysql.connector
2 mydb = mysql.connector.connect(
3     host="localhost",
4     user="root",
5     password="root",
6     database="bestenlist"
7 )
8 dbse = mydb.cursor()
9 dbse.execute("CREATE TABLE Employee(id INT AUTO_INCREMENT PRIMARY KEY, name VARCHAR(255), department VARCHAR(255))")
10
```

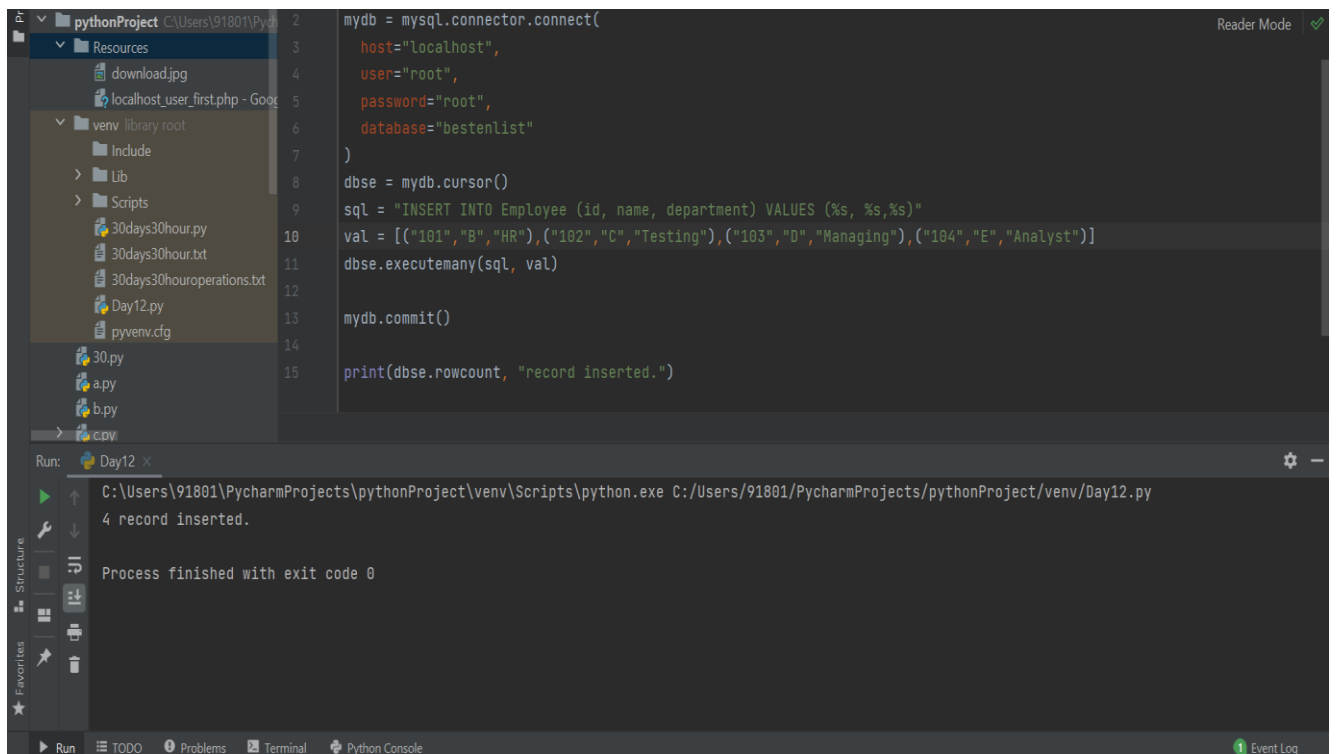
The bottom panel shows the 'Run' output for 'Day12.py', indicating the process finished with exit code 0.



The screenshot shows the PyCharm IDE with the same Python project. The main editor window shows the following Python code:

```
2 mydb = mysql.connector.connect(
3     host="localhost",
4     user="root",
5     password="root",
6     database="bestenlist"
7 )
8 dbse = mydb.cursor()
9 sql = "INSERT INTO Employee(id, name, department) VALUES (%s, %s, %s)"
10 val = ("100", "A", "HR")
11 dbse.execute(sql, val)
12
13 mydb.commit()
14
15 print(dbse.rowcount, "record inserted.")
```

The bottom panel shows the 'Run' output for 'Day12.py', indicating the process finished with exit code 0 and the output '1 record inserted.'



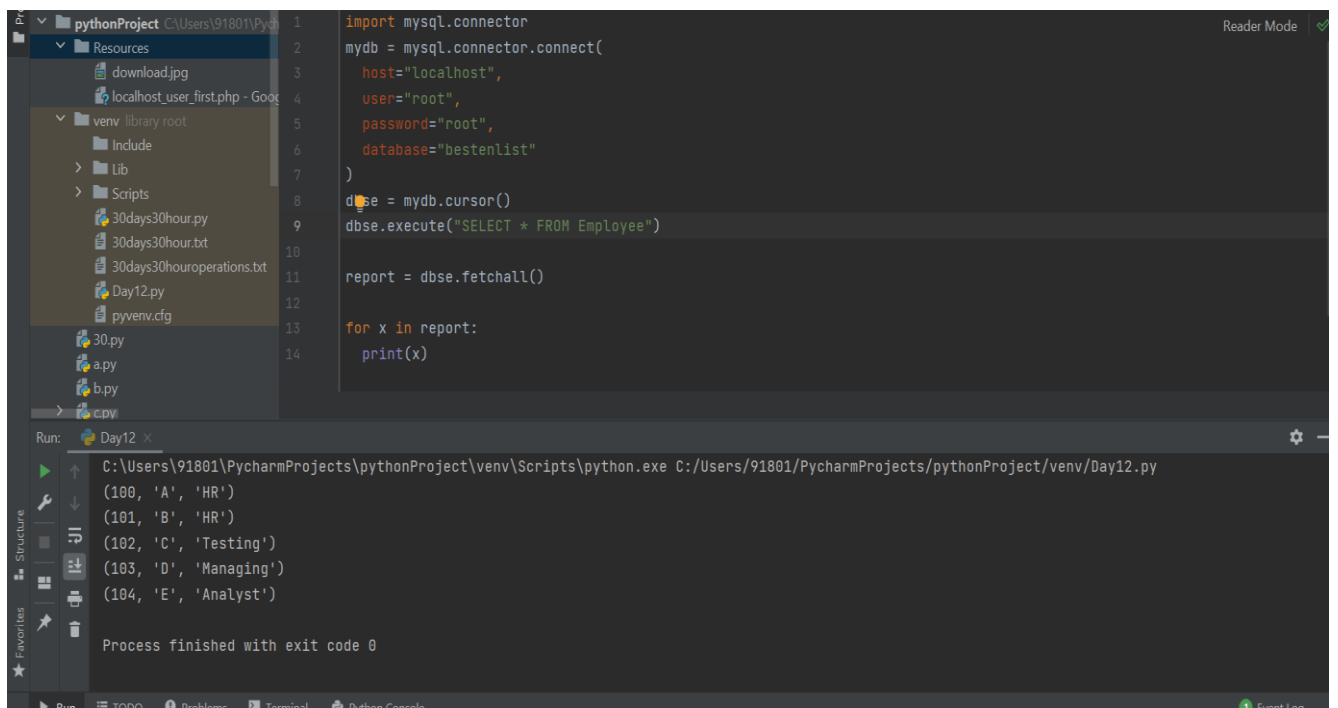
```
1 mydb = mysql.connector.connect(
2     host="localhost",
3     user="root",
4     password="root",
5     database="bestenlist"
6 )
7
8 dbse = mydb.cursor()
9 sql = "INSERT INTO Employee (id, name, department) VALUES (%s, %s,%s)"
10 val = [("101","B","HR"),("102","C","Testing"),("103","D","Managing"),("104","E","Analyst")]
11 dbse.executemany(sql, val)
12
13 mydb.commit()
14
15 print(dbse.rowcount, "record inserted.")
```

Run: Day12 x

C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py

4 record inserted.

Process finished with exit code 0



```
1 import mysql.connector
2 mydb = mysql.connector.connect(
3     host="localhost",
4     user="root",
5     password="root",
6     database="bestenlist"
7 )
8
9 dbse = mydb.cursor()
10 dbse.execute("SELECT * FROM Employee")
11
12 report = dbse.fetchall()
13
14 for x in report:
15     print(x)
```

Run: Day12 x

C:\Users\91801\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/91801/PycharmProjects/pythonProject/venv/Day12.py

(100, 'A', 'HR')

(101, 'B', 'HR')

(102, 'C', 'Testing')

(103, 'D', 'Managing')

(104, 'E', 'Analyst')

Process finished with exit code 0

