

Python MySQL Connector Cheat Sheet

1. Connect to Database

```
-----  
import mysql.connector  
conn = mysql.connector.connect(  
    host="localhost",  
    user="root",  
    password="your_password",  
    database="testdb"  
)  
cursor = conn.cursor()
```

2. Cursor Types

```
-----  
# Dictionary output (row as dict)  
cursor = conn.cursor(dictionary=True)
```

3. Execute Queries

```
-----  
INSERT:  
cursor.execute("INSERT INTO users (name, email) VALUES (%s, %s)", ("Siva",  
"siva@example.com"))  
conn.commit()  
last_id = cursor.lastrowid
```

SELECT:

```
cursor.execute("SELECT * FROM users")  
rows = cursor.fetchall()
```

UPDATE:

```
cursor.execute("UPDATE users SET email=%s WHERE id=%s", ("new@example.com", 1))  
conn.commit()
```

DELETE:

```
cursor.execute("DELETE FROM users WHERE id=%s", (1,))  
conn.commit()
```

4. Transactions

```
-----  
conn.commit()  
conn.rollback()
```

5. Prevent SQL Injection

```
-----  
cursor.execute("SELECT * FROM users WHERE email = %s", ("test@example.com",))
```

6. Utility Functions

```
-----  
cursor.lastrowid      # Last inserted ID  
cursor.rowcount       # Affected rows  
conn.is_connected()  # Check connection
```

```
7. Clean Up
-----
cursor.close()
conn.close()

# With context manager (Python 3.6+)
with mysql.connector.connect(...) as conn:
    with conn.cursor(dictionary=True) as cursor:
        cursor.execute(...)
```