

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(...)
```