



# Python MySQL Where

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## Select With a Filter

When selecting records from a table, you can filter the selection by using the "WHERE" statement:

### Example

Select record(s) where the address is "Park Lane 38": result:

```
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="yourusername",
    passwd="yourpassword",
    database="mydatabase"
)

mycursor = mydb.cursor()

sql = "SELECT * FROM customers WHERE address ='Park Lane 38'"

mycursor.execute(sql)

myresult = mycursor.fetchall()

for x in myresult:
    print(x)
```

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## Wildcard Characters

You can also select the records that starts, includes, or ends with a given letter or phrase.

Use the `%` to represent wildcard characters:

### Example

Select records where the address contains the word "way":

```
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="yourusername",
    passwd="yourpassword",
    database="mydatabase"
)

mycursor = mydb.cursor()

sql = "SELECT * FROM customers WHERE address LIKE '%way%'"

mycursor.execute(sql)

myresult = mycursor.fetchall()

for x in myresult:
    print(x)
```

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## Prevent SQL Injection

When query values are provided by the user, you should escape the values.

This is to prevent SQL injections, which is a common web hacking technique to destroy or misuse your database.

The mysql.connector module has methods to escape query values:

## Example

Escape query values by using the placeholder `%s` method:

```
import mysql.connector

mydb = mysql.connector.connect(
    host="localhost",
    user="yourusername",
    passwd="yourpassword",
    database="mydatabase"
)

mycursor = mydb.cursor()

sql = "SELECT * FROM customers WHERE address = %s"
adr = ("Yellow Garden 2", )

mycursor.execute(sql, adr)

myresult = mycursor.fetchall()

for x in myresult:
    print(x)
```

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