INTERFACE PYTHON WITH SQL

USING WHERE CONDITION

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

```python
mydb = mysql.connector.connect(

host="localhost",

user="root",

passwd="student",

database="school3"

)

mycursor = mydb.cursor()

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

mycursor.execute(sql)

myresult = mycursor.fetchall()

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

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:

```python
mydb = mysql.connector.connect(

host="localhost",

user="root",

passwd="student",
```

```
database="school3"

)

mycursor = mydb.cursor()

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

mycursor.execute(sql)

myresult = mycursor.fetchall()

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

Delete Record

You can delete records from an existing table by using the "DELETE FROM" statement:

```
mydb = mysql.connector.connect(

host="localhost",

user="root",

passwd="student",

database="school3"

)
mycursor = mydb.cursor()
sql = "DELETE FROM customers WHERE address = 'Mountain 21'"

mycursor.execute(sql)

mydb.commit()

print(mycursor.rowcount, "record(s) deleted")
```

Update Table

You can update existing records in a table by using the "UPDATE" statement:

```
mydb = mysql.connector.connect(
```

```
host="localhost",

user="root",

passwd="student",

database="school3"

)

mycursor = mydb.cursor()
sql = "UPDATE customers SET address = 'Canyon 123' WHERE address = 'Valley
345'"

mycursor.execute(sql)

mydb.commit()

print(mycursor.rowcount, "record(s) affected")
```

NOTE: Notice the statement: `mydb.commit()`. It is required to make the changes, otherwise no changes are made to the table.

X--X--X

Q1. WAP TO DISPLAY STUDENT RECORD FIELD WISE.

print("Select the search criteria : ")

print("1. Roll")

print("2. Name")

print("3. Age")

print("4. City")

print("5. All")

mysql> desc student;

```
+-------+-------------+------+-----+---------+-------+
| Field | Type        | Null | Key | Default | Extra |
+-------+-------------+------+-----+---------+-------+
| roll  | int(11)     | NO   | PRI | NULL    |       |
| name  | varchar(20) | YES  |     | NULL    |       |
| age   | int(11)     | YES  |     | NULL    |       |
```

```
| class | varchar(3)  | YES  |     | NULL    |       |
| city  | varchar(10) | YES  |     | NULL    |       |
+-------+-------------+------+-----+---------+-------+
```
5 rows in set (0.12 sec)