

Finals Lab Task 6. Mysql and Python CRUD using CLI

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100 points

Due 11:59 PM

Add Function

```
----- Employee Manager -----  
1. Add Employee  
2. View Employees  
3. Update Employees  
4. Delete Employee  
5. Search Employee  
6. Exit  
Select an option (1-6): 1  
Enter name: Devil Jin  
Enter employee ID: 103  
Enter salary: 67420  
Employee added successfully!
```

```
Employees List:  
(101, 'Juan DC', 5000.0)  
(102, "Bradd's Pit", 10000.0)  
(103, 'Devil Jin', 67420.0)
```

View Function

```
----- Employee Manager -----  
1. Add Employee  
2. View Employees  
3. Update Employees  
4. Delete Employee  
5. Search Employee  
6. Exit  
Select an option (1-6): 2  
  
Employees List:  
(101, 'Juan DC', 5000.0)  
(102, "Bradd's Pit", 10000.0)  
(103, 'Devil Jin', 67420.0)
```

Update Function

```
----- Employee Manager -----  
1. Add Employee  
2. View Employees  
3. Update Employees  
4. Delete Employee  
5. Search Employee  
6. Exit  
Select an option (1-6): 3  
Enter employee ID to update: 103  
Enter new name: Steve Fox  
Enter new salary: 99999  
Employee updated successfully!  
  
----- Employee Manager -----  
1. Add Employee  
2. View Employees  
3. Update Employees  
4. Delete Employee  
5. Search Employee  
6. Exit  
Select an option (1-6): 2  
  
Employees List:  
(101, 'Juan DC', 5000.0)  
(102, "Bradd's Pit", 10000.0)  
(103, 'Steve Fox', 99999.0)
```

Delete

```
----- Employee Manager -----
1. Add Employee
2. View Employees
3. Update Employees
4. Delete Employee
5. Search Employee
6. Exit
Select an option (1-6): 4
Enter employee ID to delete: 102
Employee deleted successfully!

----- Employee Manager -----
1. Add Employee
2. View Employees
3. Update Employees
4. Delete Employee
5. Search Employee
6. Exit
Select an option (1-6): 2

Employees List:
(101, 'Juan DC', 5000.0)
(103, 'Steve Fox', 99999.0)
```

Search

```
----- Employee Manager -----
```

- 1. Add Employee
- 2. View Employees
- 3. Update Employees
- 4. Delete Employee
- 5. Search Employee
- 6. Exit

```
Select an option (1-6): 5
```

```
Enter employee ID to search: 103
```

```
Employee found:
```

```
(103, 'Steve Fox', 99999.0)
```

```
import mysql.connector

# Connect to the MySQL database
conn = mysql.connector.connect(
    host="localhost",
    user="root",
    password="",
    database="testdb"
)

cursor = conn.cursor()

# Add a new employee
def add_employee():
    name = input("Enter name: ")
    emp_id = input("Enter employee ID: ")
    salary = float(input("Enter salary: "))

    cursor.execute(
        "INSERT INTO emp (name, emp_id, salary) VALUES (%s, %s, %s)",
        (name, emp_id, salary)
    )
    conn.commit()

    print("Employee added successfully!\n")
    view_employees()

# View all employees
def view_employees():
    cursor.execute("SELECT * FROM emp")
    rows = cursor.fetchall()

    if rows:
        print("\nEmployees List:")
        for row in rows:
            print(row)
    else:
        print("\nNo employees found.")

# Update an employee
def update_employee():
    emp_id = input("Enter employee ID to update: ")
    name = input("Enter new name: ")
    salary = float(input("Enter new salary: "))

    cursor.execute(
        "UPDATE emp SET name=%s, salary=%s WHERE emp_id=%s",
        (name, salary, emp_id)
    )
    conn.commit()

    print("Employee updated successfully!\n")
```

```
# Delete an employee
def delete_employee():
    emp_id = input("Enter employee ID to delete: ")

    cursor.execute("DELETE FROM emp WHERE emp_id=%s", (emp_id,))
    conn.commit()

    print("Employee deleted successfully!\n")

def search_employee():
    who = input("Enter employee ID to search: ")

    cursor.execute("SELECT * FROM emp WHERE emp_id = %s", (who,))
    result = cursor.fetchone()

    if result:
        print("\nEmployee found:")
        print(result)
    else:
        print("\nEmployee not found.")

if __name__ == "__main__":
    while True:
        choice = int(input("----- Employee Manager -----"
                           "\n1. Add Employee\n"
                           "2. View Employees\n"
                           "3. Update Employees\n"
                           "4. Delete Employee\n"
                           "5. Search Employee\n"
                           "6. Exit\n"
                           "Select an option (1-6): "))
        if choice == 1:
            add_employee()
        elif choice == 2:
            view_employees()
        elif choice == 3:
            update_employee()
        elif choice == 4:
            delete_employee()
        elif choice == 5:
            search_employee()
        elif choice == 6:
            print("Bye-bye!")
            break
        else:
            print("Wrong input!")
```