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BSCS C203

Finals Lab Task 6. Connection Mysql using Python using CLI

```
import mysql.connector



conn = mysql.connector.connect(
   host="localhost",
   user="root",
   password="",
   database="testdb"
)

cursor = conn.cursor()



def add_employee():
   name = input("Enter name: ")
   emp_id = input("Enter employee ID: ")
   salary = float(input("Enter salary: "))
   cursor.execute("INSERT INTO emp1 (name, emp_id, salary) VALUES(%s,%s,%s)",
                  (name, emp_id, salary))
   conn.commit()
   print("\nEmployee added successfully!")
   view_employees()




def view_employees():
   cursor.execute("SELECT * FROM emp1")
   rows = cursor.fetchall()
```

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



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 emp1 SET name=%s, salary=%s WHERE emp_id=%s",
                   (name, salary, emp_id))
    conn.commit()

    print("\nEmployee updated successfully!\n")
    view_employees()



# --- DELETE EMPLOYEE ---
def delete_employee():
    emp_id = input("Enter employee ID to delete: ")
    cursor.execute("DELETE FROM emp1 WHERE emp_id=%s", (emp_id,))
    conn.commit()
    print("\nEmployee deleted successfully!\n")
    view_employees()



# --- SEARCH EMPLOYEE (BY NAME OR ID) ---
```

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```
def search_employee():
    print("\nSearch Employee")
    print("1. Search by Name")
    print("2. Search by Employee ID")

    choice = input("Enter option: ")

    if choice == "1":
        name = input("Enter name to search: ")
        cursor.execute("SELECT * FROM employees WHERE name LIKE %s", ('%' +
name + '%',))
    elif choice == "2":
        emp_id = input("Enter employee ID to search: ")
        cursor.execute("SELECT * FROM emp11 WHERE emp_id=%s", (emp_id,))
    else:
        print("Invalid option.\n")
        return

    result = cursor.fetchall()
    if result:
        print("\nSearch Results:")
        for row in result:
            print(row)
    else:
        print("\nNo matching employee found.\n")



# --- MAIN MENU ---
def main_menu():
    while True:
        print("\n----- Employee Manager -----")
        print("1. Add Employee")
```

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```
        print("2. View Employees")
        print("3. Update Employee")
        print("4. Delete Employee")
        print("5. Search Employee")
        print("6. Exit")
        choice = input("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("Exiting program...")
            break
        else:
            print("Invalid choice. Try again.\n")


# --- RUN PROGRAM ---
if __name__ == "__main__":
    main_menu()
```

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SAMPLE OUTPUT

```
----- Employee Manager -----
1. Add Employee
2. View Employees
3. Update Employee
4. Delete Employee
5. Search Employee
6. Exit
Select an option (1-6): 1
Enter name: ikaw
Enter employee ID: 103
Enter salary: 100000

Employee added successfully!

Employees List:
('Detroit, Mike', 101, 50000.0)
('Johnson, Jude ', 102, 60000.0)
('[value-1]', 0, 0.0)
('Brave, Jhon', 103, 100000.0)
('Brave, Jhon', 103, 100000.0)
('ikaw', 103, 100000.0)

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

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```
4. Delete Employee
5. Search Employee
6. Exit
Select an option (1-6): 4
Enter employee ID to delete: 103

Employee deleted successfully!


Employees List:
('Detroit, Mike', 101, 50000.0)
('Johnson, Jude ', 102, 60000.0)
('[value-1]', 0, 0.0)

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

Employees List:
('Detroit, Mike', 101, 50000.0)
('Johnson, Jude ', 102, 60000.0)
('[value-1]', 0, 0.0)

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