```
Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nisha>cd "C:\Users\nisha\OneDrive\Documents\ProjectManagement"

C:\Users\nisha\OneDrive\Documents\ProjectManagement>python dbconnector.py

Connected to ProjectManagement database successfully!

Total Employees: 10
Database connection closed.

C:\Users\nisha\OneDrive\Documents\ProjectManagement>
```

```
Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\nisha>cd C:\Users\nisha\OneDrive\Documents\ProjectManagement

C:\Users\nisha\OneDrive\Documents\ProjectManagement>python main.py

✓ Connected to ProjectManagement database successfully!

1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Project Status
9. Update Project Status
9. Update Task
10. Delete Employee
11. Delete Employee
12. Delete Employee
13. Expense Report
14. Exit
Enter your choice: 1
Enter Name: Aruna
Enter Designation: UI/UX Designer
Enter Gender: Female
Enter Salary: 68000
Enter Project ID (or leave blank): 2

✓ Employee 'Aruna' added successfully!
```

```
1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Project Status
9. Update Task
10. Delete Employee
11. Delete Project
12. Delete Task
13. Expense Report
14. Exit
Enter your choice: 2
Enter Project Name: AI-Powered CRM
Enter Description: Developing an AI-based customer relationship management system
Enter Status: Started

☑ Project 'AI-Powered CRM' added successfully!
```

```
1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Project Status
9. Update Project Status
9. Update Task
10. Delete Employee
11. Delete Project
12. Delete Task
13. Expense Report
14. Exit
Enter your choice: 3
Enter Task Name: API Development
Enter Project ID: 1
Enter Enployee ID: 5
Enter Status: Assigned
Enter Deadline (YYYY-MM-DD): 2025-06-15

X Error executing query: ('23000', '[23000] [Microsoft][ODBC SQL Server Driver][SQL Server]The INSERT statement conflicted with the FOREIGN KEY constraint "FK__Task__project_id__40348C7D". The conflict occurred in database "ProjectManagement", table "dbo. Project", column \'id\', (547) (SQLExecDirectW); [23000] [Microsoft][ODBC SQL Server Driver][SQL Server Driver][SQL Server]
The statement has been terminated. (3621)')

7 Task 'API Development' added successfully!

1. Add Employee
2. Add Project
3. Add Task
4. View Employees
```

```
1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Project Status
9. Update Task
10. Delete Employee
11. Delete Employee
12. Delete Project
12. Delete Fask
13. Expense Report
14. Exit
Enter your choice: 3
Enter Task Name: API Development
Enter Project ID: 1
Enter Employee ID: 1
Enter Status: Assigned
Enter Deadline (YYYY-MM-DD): 2025-06-15
■ Task 'API Development' added successfully!
```

```
1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Project Status
9. Update Task
10. Delete Employee
11. Delete Project
12. Delete Project
12. Delete Task
13. Expense Report
14. Exit
Enter your choice: 4
[(1, 'Nisha', 'Software Engineer', 'Female', Decimal('75000.00'), 1), (2, 'Gani', 'Data Scientist', 'Male', Decimal('85000.00'), 2), (3, 'Ram', 'Mobile Developer', 'Male', Decimal('70000.00'), 3), (4, 'Hairni', 'Data Analyst', 'Female', Decimal('55000.00'), 2), (3, 'Ram', 'Mobile Developer', 'Male', Decimal('90000.00'), 5), (6, 'Sangeetha', 'Cyber Security
Expert', 'Female', Decimal('95000.00'), 6), (7, 'Nivetha', 'IoT Developer', 'Female', Decimal('80000.00'), 7), (8, 'Niki
la', 'Blockchain Developer', 'Female', Decimal('88000.00'), 8), (9, 'Varshana', 'Healthcare IT Specialist', 'Female', De
cimal('72000.00'), 9), (10, 'Dharshan', 'AI Researcher', 'Male', Decimal('98000.00'), 10), (14, 'Aruna', 'UI/UX Designer', 'Female', Decimal('68000.00'), 2), (16, 'Aruna', 'UI/UX Designer', 'Female', Decimal('68000.00'), 2), (16, 'Aruna', 'UI/UX Designer', 'Female', Decimal('68000.00'), 2), (16, 'Aruna', 'UI/UX Designer', 'Female', Decimal('68000.00'), 2)]
```

```
1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Project Status
9. Update Task
10. Delete Employee
11. Delete Project
12. Delete Project
13. Expense Report
14. Exit
14. Exit
15. Enter your choice: 5
[(1, 'AI Development', 'Machine Learning model for image recognition', '2025-03-01', 'started'), (2, 'Web App', 'E-comme rce platform development', '2025-02-15', 'dev'), (3, 'Mobile App', 'Android and iOS mobile application', '2025-04-10', 'build'), (4, 'Data Analytics', 'Big Data and analytics project', '2025-03-20', 'test'), (5, 'Cloud Migration', 'Migratin g legacy systems to the cloud', '2025-01-05', 'deployed'), (6, 'Cyber Security', 'Implementing security features', '2025-08-01', 'started'), (7, 'IoT Integration', 'Connecting IoT devices', '2025-06-15', 'dev'), (8, 'Blockchain Project', 'Developing blockchain-based solutions', '2025-07-10', 'build'), (9, 'Healthcare System', 'Creating a digital healthcare p latform', '2025-08-01', 'test'), (10, 'AI Chatbot', 'Developing an AI-powered chatbot', '2025-09-01', 'deployed'), (11, 'AI-Powered CRM', 'Developing an AI-based customer relationship management system', '2025-01-01', 'Started')]
```

```
1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Employee Salary
8. Update Project Status
9. Update Project Status
9. Update Project Status
10. Delete Employee
11. Delete Employee
11. Delete Employee
11. Delete Project
12. Delete Task
13. Expense Report
14. Exit
14. Exit
16. Exit
17. Frontend Design', 2, 1, 'Started', None), (3, 'Database Setup', 3, 3, 'Completed', None), (4, 'Data Visualization', 4, 4, 'Assigned', None), (5, 'Server Migration', 5, 5, 'Started', None), (6, 'Penetration Testing', 6, 6, 'Completed', None), (7, 'Sensor Integration', 7, 'Assigned', None), (8, 'Smart Contract Development', 8, 8, 'Started', None), (9, 'Medical Data Analysis', 9, 9, 'Completed', None), (10, 'Chatbot AI Model Training', 10, 10, 'Assigned', None), (12, 'A)
PI Development', 1, 1, 'Assigned', '2025-06-15')
```

- 1. Add Employee
- 2. Add Project
- 3. Add Task
- 4. View Employees
- 5. View Projects
- 6. View Tasks
- 7. Update Employee Salary
- 8. Update Project Status
- 9. Update Task
- 10. Delete Employee
- 11. Delete Project
- 12. Delete Task
- 13. Expense Report
- 14. Exit

Enter your choice: 7 Enter Employee ID: 1 Enter New Salary: 80000

Employee ID 1 salary updated successfully!

```
    Add Employee
    Add Project
    Add Task
    View Employees
    View Projects
    View Tasks
    Update Employee Salary
    Update Project Status
    Update Project Status
    Delete Employee
    Delete Employee
    Delete Project
    Delete Task
    Expense Report
    Exter Project ID: 2
    Enter New Status: Completed
    Error executing query: ('23000', '[23000] [Microsoft][ODBC SQL Server Driver][SQL Server]The UPDATE statement conflicted with the CHECK constraint "CK__Project__status__37A5467C". The conflict occurred in database "ProjectManagement", table "dbo.Project", column \'status\'. (547) (SQLExecDirectW); [23000] [Microsoft][ODBC SQL Server Driver][SQL Server]The statement has been terminated. (3621)')
    Project ID 2 updated successfully!
```

- 2. Add Project
- 3. Add Task
- 4. View Employees
- 5. View Projects
- 6. View Tasks
- 7. Update Employee Salary
- 8. Update Project Status
- 9. Update Task
- 10. Delete Employee
- 11. Delete Project
- 12. Delete Task
- 13. Expense Report
- 14. Exit

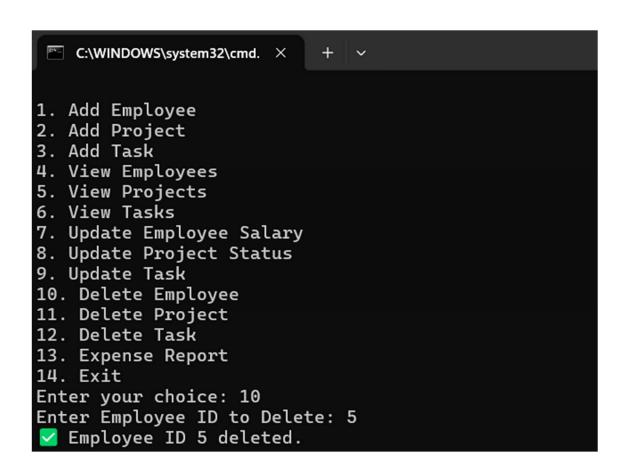
Enter your choice: 9

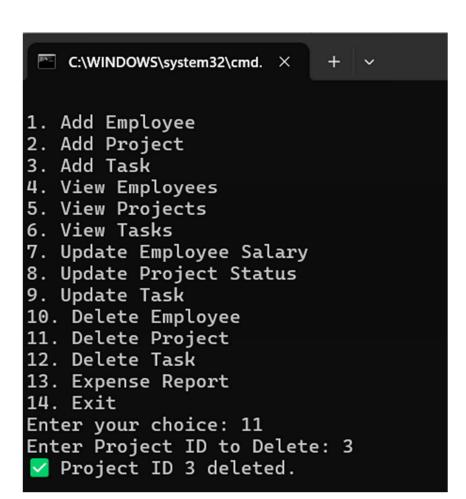
Enter Task ID: 3

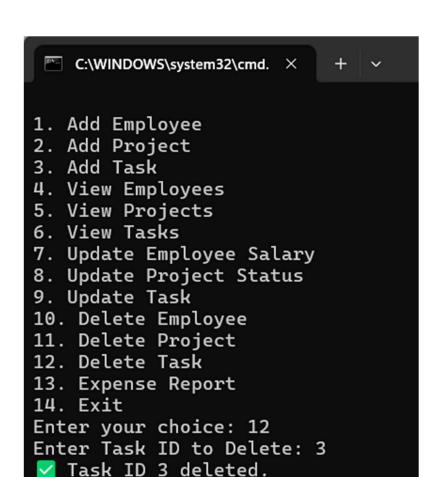
Enter New Status: Completed

Enter New Deadline (YYYY-MM-DD): 2025-06-10

Task ID 3 updated successfully!







```
1. Add Employee
2. Add Project
3. Add Task
4. View Employees
5. View Projects
6. View Tasks
7. Update Employee Salary
8. Update Project Status
9. Update Task
10. Delete Employee
11. Delete Project
12. Delete Task
13. Expense Report
14. Exit
Enter your choice: 13
Salary Expense Report:
Project: AI Chatbot | Total Expense: 98000.00
Project: AI Development | Total Expense: 80000.00
Project: Blockchain Project | Total Expense: 88000.00
Project: Cyber Security | Total Expense: 95000.00
Project: Data Analytics | Total Expense: 65000.00
Project: Healthcare System | Total Expense: 72000.00
Project: IoT Integration | Total Expense: 80000.00
Project: Web App | Total Expense: 289000.00
```

- 1. Add Employee
- 2. Add Project
- 3. Add Task
- 4. View Employees
- 5. View Projects
- 6. View Tasks
- 7. Update Employee Salary
- 8. Update Project Status
- 9. Update Task
- Delete Employee
- 11. Delete Project
- 12. Delete Task
- 13. Expense Report
- 14. Exit

Enter your choice: 14

Exiting...

```
C:\Users\nisha\OneDrive\Documents\ProjectManagement>python -m unittest discover tests/

Connected to ProjectManagement database successfully!

Employee 'TestUser' added successfully!

Connected to ProjectManagement database successfully!

Connected to ProjectManagement database successfully!

Connected to ProjectManagement database successfully!

Project 'Test Project' added successfully!

Connected to ProjectManagement database successfully!

Connected to ProjectManagement database successfully!

Task 'Test Task' added successfully!

Task 'Test Task' added successfully!

Task ID 9999 updated successfully!

Ran 8 tests in 0.126s
```