

CASE STUDY

Project Management System

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Outputs :

1. Create Project

```
===== Project Management Menu =====
1. Create Project
2. Add Employee
3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Employee
7. Delete Task
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 1
Enter project name: New Banking App
Enter project description: Android app for bank xyz
Enter start date (YYYY-MM-DD): 2024-10-13
Enter project status (started/dev/build/test/deployed): started

Project New Banking App  added successfully.
```

100 %

Results

Messages

	id	project_name	description	start_date	status
1	1	New Banking App	Android app for bank xyz	2024-10-13	started

2. Create Employee

```
===== Project Management Menu =====
1. Create Project
2. Add Employee
3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Employee
7. Delete Task
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 2
Enter employee name: Peter
Enter designation: SDE-2
Enter gender: M
Enter salary: 3400000
Enter project ID: 1

Employee Peter added successfully.
```

100 %

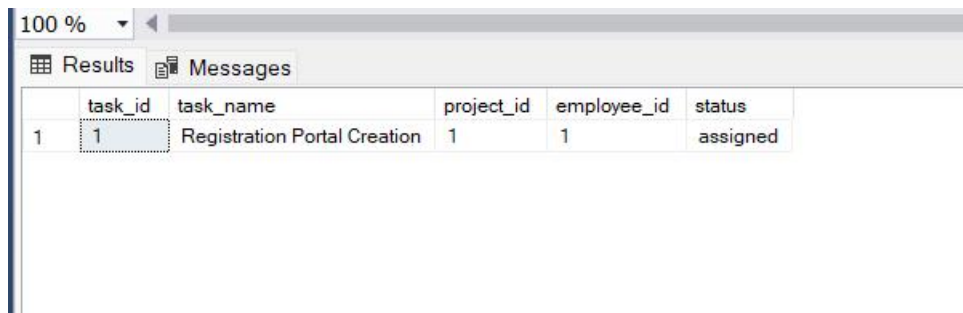
Results					
	id	project_name	description	start_date	status
1	1	New Banking App	Android app for bank xyz	2024-10-13	started

3. Add task

```
===== Project Management Menu =====
1. Create Project
2. Add Employee
3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Employee
7. Delete Task
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 3
Enter task name: Registration Portal Creation
Enter project ID: 1
Enter employee ID: 1
Enter task status (assigned/started/completed): assigned

Task Registration Portal Creation added successfully.
```



The screenshot shows a database client window with a 'Results' tab. It displays a single row of data from a table. The columns are task_id, task_name, project_id, employee_id, and status. The values in the row are 1, Registration Portal Creation, 1, 1, and assigned respectively.

	task_id	task_name	project_id	employee_id	status
1	1	Registration Portal Creation	1	1	assigned

4. Assign project to employee

```
Task Registration Portal Creation added successfully.

===== Project Management Menu =====
1. Create Project
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3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Employee
7. Delete Task
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 4
Enter project ID: 1
Enter employee ID: 1

Project 1 assigned to employee 1 successfully.
```

100 %						
Results Messages						
	id	name	designation	gender	salary	project_id
1	1	Peter	SDE-2	M	3400000.00	1

	id	project_name	description	start_date	status
1	1	New Banking App	Android app for bank xyz	2024-10-13	started

	task_id	task_name	project_id	employee_id	status
1	1	Registration Portal Creation	1	1	assigned

5. Assign task within a project to employee

```
===== Project Management Menu =====
1. Create Project
2. Add Employee
3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Employee
7. Delete Task
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 5
Enter task ID: 1
Enter project ID: 1
Enter employee ID: 1

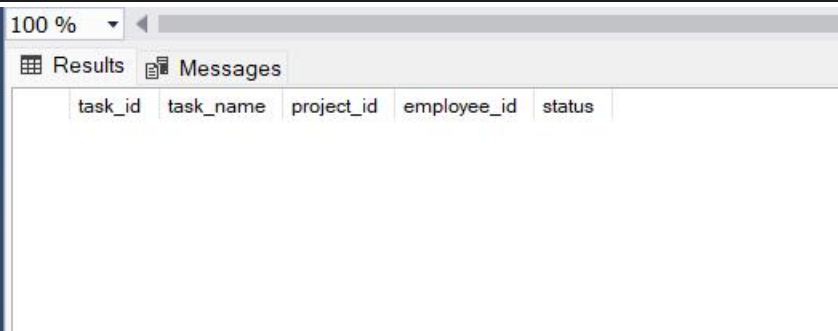
Task 1 in project 1 assigned to employee 1 successfully.
```

6. Delete Task

```
===== Project Management Menu =====
1. Create Project
2. Add Employee
3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Task
7. Delete Employee
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 6
Enter task ID to delete: 1

Task of id:1 deleted successfully
```



100 %

Results Messages

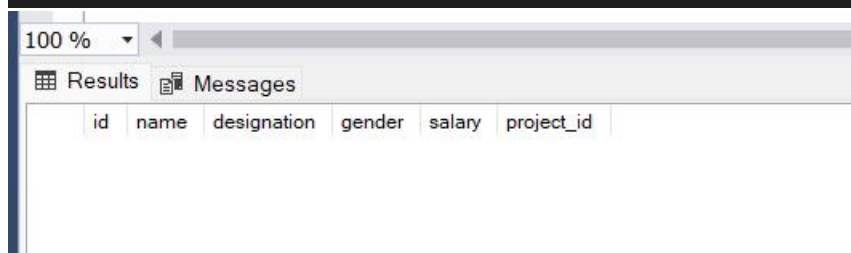
task_id	task_name	project_id	employee_id	status
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7. Delete employee

```
===== Project Management Menu =====
1. Create Project
2. Add Employee
3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Task
7. Delete Employee
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 7
Enter employee ID to delete: 1

Employee of id:1 deleted successfully.
```



A screenshot of a web browser window showing a table. The browser's address bar is at the top, followed by a toolbar with 'Results' and 'Messages' tabs. Below the toolbar is a table with the following columns: id, name, designation, gender, salary, and project_id. The table is currently empty.

id	name	designation	gender	salary	project_id
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8. List all tasks assigned to an employee in a project

```
===== Project Management Menu =====
1. Create Project
2. Add Employee
3. Add Task
4. Assign project to employee
5. Assign task within a project to employee
6. Delete Task
7. Delete Employee
8. List all tasks assigned to an employee in a project
9. Exit

Choose an option: 8
Enter employee ID: 3
Enter project ID: 1

===== Tasks Assigned to Employee =====

Task ID: 2, Task Name: Redesigning frontend of app, Status: started
```

100 %

Results Messages

	id	name	designation	gender	salary	project_id
1	3	Dan	SDE-3	M	450000.00	1

	id	project_name	description	start_date	status
1	1	New Banking App	Android app for bank xyz	2024-10-13	started

	task_id	task_name	project_id	employee_id	status
1	2	Redesigning frontend of app	1	3	started

Unit-Test

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  COMMENTS

● PS C:\Users\hp\OneDrive\Desktop\Hexaware\Case-Study> python -u "c:\Users\hp\OneDrive\Desktop\Hexaware\Case-Study\test.py"
....
-----
Ran 4 tests in 0.009s

OK

```