Name	**task-3**
Description	join
Area	-
Visibility	Private - you are the only person who can access
Tags	-
Script Results	We cannot determine the last run date for this script. What's This?
Last Updated	Sunday December 01, 2024 (Created 4 minutes ago)
Metrics	34 Statements, 3,270 bytes

Statement **1**

🗑   Edit

```
CREATE TABLE Employees (
    EmployeeID INT PRIMARY KEY,
    Name VARCHAR(50),
    DepartmentID INT
)
```

Table created.

Statement 2

🗑 Edit

```
CREATE TABLE Departments (
    DepartmentID INT PRIMARY KEY,
    DepartmentName VARCHAR(50)
)
```

Table created.

Statement 3

🗑 Edit

```
CREATE TABLE Projects (
    ProjectID INT PRIMARY KEY,
    ProjectName VARCHAR(50),
    EmployeeID INT
)
```

Table created.

Statement 4

🗑 Edit

```
INSERT INTO Employees VALUES (1, 'Alice', 101)
```

1 row(s) inserted.

Statement 5

🗑 Edit

```
INSERT INTO Employees VALUES (2, 'Bob', 102)
```

1 row(s) inserted.

Statement 6

🗑 Edit

```
INSERT INTO Employees VALUES (3, 'Charlie', 103)
```

1 row(s) inserted.

Statement 7

🗑 Edit

```
INSERT INTO Employees VALUES (4, 'Diana', NULL)
```

1 row(s) inserted.

Statement **8**

🗑 Edit

```
INSERT INTO Employees VALUES (5, 'Eve', 101)
```

1 row(s) inserted.

Statement **9**

🗑 Edit

```
INSERT INTO Departments VALUES (101, 'HR')
```

1 row(s) inserted.

Statement **10**

🗑 Edit

```
INSERT INTO Departments VALUES(102, 'IT')
```

1 row(s) inserted.

Statement **11**

🗑 Edit

```
INSERT INTO Departments VALUES(103, 'Finance')
```

1 row(s) inserted.

Statement **12**

🗑 Edit

```
INSERT INTO Departments VALUES(104, 'Marketing')
```

1 row(s) inserted.

Statement **13**

🗑 Edit

```
INSERT INTO Departments VALUES(105, 'Operations')
```

1 row(s) inserted.

Statement **14**

🗑 Edit

```
INSERT INTO Projects VALUES (1, 'Project Alpha', 1)
```

1 row(s) inserted.

Statement **15**

🗑   Edit

```
INSERT INTO Projects VALUES (2, 'Project Beta', 2)
```

1 row(s) inserted.

Statement **16**

🗑   Edit

```
INSERT INTO Projects VALUES (3, 'Project Gamma', 3)
```

1 row(s) inserted.

Statement **17**

🗑   Edit

```
INSERT INTO Projects VALUES (4, 'Project Delta', 4)
```

1 row(s) inserted.

Statement **18**

🗑   Edit

```
INSERT INTO Projects VALUES (5, 'Project Omega', NULL)
```

1 row(s) inserted.

Statement **19**

🗑   Edit

```
SELECT e.EmployeeID, e.Name, d.DepartmentName
FROM Employees e
INNER JOIN Departments d ON e.DepartmentID = d.DepartmentID
```

EMPLOYEEID	NAME	DEPARTMENTNAME
1	Alice	HR
5	Eve	HR
2	Bob	IT

| 3 | Charlie | Finance |

Download CSV

4 rows selected.

Statement **20**

🗑 Edit

```
SELECT e.EmployeeID, e.Name, d.DepartmentName
FROM Employees e
LEFT JOIN Departments d ON e.DepartmentID = d.DepartmentID
```

EMPLOYEEID	NAME	DEPARTMENTNAME
1	Alice	HR
5	Eve	HR
2	Bob	IT
3	Charlie	Finance
4	Diana	-

Download CSV

5 rows selected.

Statement **21**

🗑 Edit

```
SELECT e.EmployeeID, e.Name, d.DepartmentName
FROM Employees e
RIGHT JOIN Departments d ON e.DepartmentID = d.DepartmentID
```

EMPLOYEEID	NAME	DEPARTMENTNAME
1	Alice	HR
2	Bob	IT
3	Charlie	Finance
5	Eve	HR
-	-	Operations
-	-	Marketing

Download CSV

6 rows selected.

Statement **22**

🗑   Edit

```
SELECT e.EmployeeID, e.Name, d.DepartmentName
FROM Employees e
FULL OUTER JOIN Departments d ON e.DepartmentID = d.DepartmentID
```

EMPLOYEEID	NAME	DEPARTMENTNAME
1	Alice	HR
5	Eve	HR
2	Bob	IT
3	Charlie	Finance

-	-	Marketing
-	-	Operations
4	Diana	-

Download CSV

7 rows selected.

Statement **23**

🗑   Edit

```
SELECT e.EmployeeID, e.Name, p.ProjectName
FROM Employees e
CROSS JOIN Projects p
```

EMPLOYEEID	NAME	PROJECTNAME
1	Alice	Project Alpha
1	Alice	Project Beta
1	Alice	Project Gamma
1	Alice	Project Delta
1	Alice	Project Omega
2	Bob	Project Alpha
2	Bob	Project Beta
2	Bob	Project Gamma

2	Bob	Project Delta
2	Bob	Project Omega
3	Charlie	Project Alpha
3	Charlie	Project Beta
3	Charlie	Project Gamma
3	Charlie	Project Delta
3	Charlie	Project Omega
4	Diana	Project Alpha
4	Diana	Project Beta
4	Diana	Project Gamma
4	Diana	Project Delta
4	Diana	Project Omega
5	Eve	Project Alpha
5	Eve	Project Beta
5	Eve	Project Gamma
5	Eve	Project Delta
5	Eve	Project Omega

Download CSV

25 rows selected.

Statement **24**

🗑   Edit

```
SELECT e.EmployeeID, e.Name, p.ProjectName
FROM Employees e
INNER JOIN Projects p ON e.EmployeeID = p.EmployeeID
```

EMPLOYEEID	NAME	PROJECTNAME
1	Alice	Project Alpha
2	Bob	Project Beta
3	Charlie	Project Gamma
4	Diana	Project Delta

Download CSV

4 rows selected.

Statement **25**

🗑   Edit

```
SELECT e.EmployeeID, e.Name, p.ProjectName
FROM Employees e
LEFT JOIN Projects p ON e.EmployeeID = p.EmployeeID
WHERE p.ProjectName IS NULL
```

EMPLOYEEID	NAME	PROJECTNAME
5	Eve	-

Download CSV

Statement **26**

🗑 Edit

```
SELECT p.ProjectID, p.ProjectName, e.Name
FROM Employees e
RIGHT JOIN Projects p ON e.EmployeeID = p.EmployeeID
```

PROJECTID	PROJECTNAME	NAME
1	Project Alpha	Alice
2	Project Beta	Bob
3	Project Gamma	Charlie
4	Project Delta	Diana
5	Project Omega	-

Download CSV

5 rows selected.

Statement **27**

🗑 Edit

```
SELECT e.EmployeeID, e.Name, d.DepartmentName
FROM Employees e
FULL OUTER JOIN Departments d ON e.DepartmentID = d.DepartmentID
```

EMPLOYEEID	NAME	DEPARTMENTNAME
1	Alice	HR

5	Eve	HR
2	Bob	IT
3	Charlie	Finance
-	-	Marketing
-	-	Operations
4	Diana	-

Download CSV

7 rows selected.

Statement **28**

🗑 Edit

```
SELECT e1.Name AS Employee1, e2.Name AS Employee2, d.DepartmentName
FROM Employees e1
INNER JOIN Employees e2 ON e1.DepartmentID = e2.DepartmentID AND e1.EmployeeID != e2.Empl
INNER JOIN Departments d ON e1.DepartmentID = d.DepartmentID
```

EMPLOYEE1	EMPLOYEE2	DEPARTMENTNAME
Eve	Alice	HR
Alice	Eve	HR

Download CSV

2 rows selected.

Statement **29**

🗑 Edit

```
SELECT e.Name, p.ProjectName
FROM Employees e
CROSS JOIN Projects p
WHERE p.ProjectName LIKE 'Project A%'
```

NAME	PROJECTNAME
Alice	Project Alpha
Bob	Project Alpha
Charlie	Project Alpha
Diana	Project Alpha
Eve	Project Alpha

Download CSV

5 rows selected.

Statement **30**

🗑 Edit

```
SELECT d.DepartmentName, COUNT(e.EmployeeID) AS EmployeeCount
FROM Departments d
LEFT JOIN Employees e ON d.DepartmentID = e.DepartmentID
GROUP BY d.DepartmentName
```

DEPARTMENTNAME	EMPLOYEECOUNT
HR	2

Marketing	0
IT	1
Finance	1
Operations	0

Download CSV

5 rows selected.

Statement **31**

🗑   Edit

```
SELECT e.Name, d.DepartmentName, p.ProjectName
FROM Employees e
LEFT JOIN Departments d ON e.DepartmentID = d.DepartmentID
LEFT JOIN Projects p ON e.EmployeeID = p.EmployeeID
```

NAME	DEPARTMENTNAME	PROJECTNAME
Alice	HR	Project Alpha
Bob	IT	Project Beta
Charlie	Finance	Project Gamma
Diana	-	Project Delta
Eve	HR	-

Download CSV

5 rows selected.

Statement **32**

🗑 Edit

```
SELECT e.Name,
       CASE
           WHEN p.ProjectName IS NULL THEN 'Not Assigned'
           ELSE 'Assigned'
       END AS ProjectStatus
FROM Employees e
LEFT JOIN Projects p ON e.EmployeeID = p.EmployeeID
```

NAME	PROJECTSTATUS
Alice	Assigned
Bob	Assigned
Charlie	Assigned
Diana	Assigned
Eve	Not Assigned

Download CSV

5 rows selected.

Statement **33**

🗑 Edit

```
SELECT e.Name AS EmployeeName, d.DepartmentName
FROM Employees e
```

```
FULL OUTER JOIN Departments d ON e.DepartmentID = d.DepartmentID
```

EMPLOYEENAME	DEPARTMENTNAME
Alice	HR
Eve	HR
Bob	IT
Charlie	Finance
-	Marketing
-	Operations
Diana	-

Download CSV

7 rows selected.

Statement **34**

🗑 Edit

```
SELECT e.EmployeeID, e.Name, d.DepartmentName
FROM Employees e
LEFT JOIN Departments d ON e.DepartmentID = d.DepartmentID
```

EMPLOYEEID	NAME	DEPARTMENTNAME
1	Alice	HR
5	Eve	HR

2	Bob	IT
3	Charlie	Finance
4	Diana	-

Download CSV

5 rows selected.

▶ **Script Update Details**