Experiment- 2.2

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Semester: Fifth
Date of Performance: 07/08/2025
Subject Name: ADBMS
Subject Code: 23CSP-333

1. Aim:

To design and execute SQL queries that retrieve mission success data for specific shinobi and years, ensuring that queries return results even when no matching mission records exist, using a right outer join with null handling.

2. Objective:

Join Implementation – Apply a RIGHT OUTER JOIN to ensure that all query requests in MISSION_QUERIES_TBL are included in the output, regardless of whether matching mission data exists.

Null Handling – Use ISNULL to replace null success point values with 0 for cases where no mission data exists.

Result Presentation – Display both query parameters and corresponding mission success points in a clear format for analysis.

3. DBMS script and output:

```
CREATE TABLE MISSIONS_TBL(
 ShinobiID INT,
 Year INT,
 SuccessPoints INT
);

INSERT INTO MISSIONS_TBL(ShinobiID, Year, SuccessPoints)
VALUES
(1, 2018, 100),
(7, 2020, 30),
(13, 2019, 40),
(1, 2019, 113),
(2, 2008, 121),
(3, 2002, 12),
(11, 2020, 99),
(7, 2019, 0);
```

```
CREATE TABLE MISSION_QUERIES_TBL(
 ShinobiID INT,
 Year INT
);

INSERT INTO MISSION_QUERIES_TBL(ShinobiID, Year)
VALUES
(1, 2019),
(2, 2008),
(3, 2009),
(7, 2018),
(7, 2019),
(7, 2020),
(13, 2019);

SELECT
 Q.*,
 ISNULL(M.SuccessPoints, 0) AS SuccessPoints
FROM
 MISSIONS_TBL AS M
RIGHT OUTER JOIN
 MISSION_QUERIES_TBL AS Q
ON
 M.ShinobiID = Q.ShinobiID
 AND
 M.Year = Q.Year;
```

Results Messages

	ShinobiID	Year	SuccessPoints
1	1	2019	113
2	2	2008	121
3	3	2009	0
4	7	2018	0
5	7	2019	0
6	7	2020	30
7	13	2019	40