Aadarsh Baranwal
FYCS A

PRACTICAL 9

9] Subqueries:
1. Simple subquery.(IN/ALL/EXIST)
2. Nested subquery.
3. Correlated subquery.
==========

```
SQL> DROP TABLE Course1439_9 CASCADE CONSTRAINTS;

Table dropped.

SQL> CREATE TABLE Student1439_9 (
  2       Stu_Id VARCHAR2(10) PRIMARY KEY,
  3       Stu_Name VARCHAR2(50),
  4       Course_Id VARCHAR2(10)
  5   );

Table created.

SQL>
SQL> CREATE TABLE Course1439_9 (
  2       Course_Id VARCHAR2(10) PRIMARY KEY,
  3       Course_Name VARCHAR2(50)
  4   );

Table created.

SQL> -- Students
SQL> INSERT INTO Student1439_9 VALUES ('S101', 'Rajesh', 'C001');

1 row created.

SQL> INSERT INTO Student1439_9 VALUES ('S102', 'Priya',  'C002');

1 row created.

SQL> INSERT INTO Student1439_9 VALUES ('S103', 'Aman',   'C003');
```

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```
1 row created.

SQL> INSERT INTO Student1439_9 VALUES ('S103', 'Aman',   'C003');

1 row created.

SQL> INSERT INTO Student1439_9 VALUES ('S104', 'Kajal',  NULL);

1 row created.

SQL>
SQL> -- Courses
SQL> INSERT INTO Course1439_9 VALUES ('C001', 'Database Systems');

1 row created.

SQL> INSERT INTO Course1439_9 VALUES ('C002', 'Java Programming');

1 row created.

SQL> INSERT INTO Course1439_9 VALUES ('C003', 'OS Fundamentals');

1 row created.

SQL> INSERT INTO Course1439_9 VALUES ('C004', 'Computer Networks');

1 row created.

SQL>
SQL> SELECT * FROM Student1439_9;

STU_ID     STU_NAME                                                 COURSE_ID
---------- -------------------------------------------------------- ----------
S101       Rajesh                                                   C001
S102       Priya                                                    C002
S103       Aman                                                     C003
S104       Kajal

SQL> SELECT * FROM Course1439_9;

COURSE_ID  COURSE_NAME
---------- --------------------------------------------------
C001       Database Systems
C002       Java Programming
C003       OS Fundamentals
C004       Computer Networks

SQL> SELECT S.Stu_Name, C.Course_Name
  2  FROM Student1439_9 S
  3  LEFT JOIN Course1439_9 C
  4  ON S.Course_Id = C.Course_Id;

STU_NAME
--------------------------------------------------
COURSE_NAME
--------------------------------------------------
Rajesh
Database Systems

Priya
Java Programming

Aman
OS Fundamentals


STU_NAME
--------------------------------------------------
COURSE_NAME
--------------------------------------------------
Kajal



SQL> SELECT S.Stu_Name, C.Course_Name
  2  FROM Student1439_9 S
  3  RIGHT JOIN Course1439_9 C
  4  ON S.Course_Id = C.Course_Id;

STU_NAME
--------------------------------------------------
COURSE_NAME
--------------------------------------------------
Rajesh
Database Systems
```

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```
Priya
Java Programming

Aman
OS Fundamentals


STU_NAME
--------------------------------------------------
COURSE_NAME
--------------------------------------------------

Computer Networks


SQL> SELECT S.Stu_Name, C.Course_Name
  2  FROM Student1439_9 S
  3  FULL OUTER JOIN Course1439_9 C
  4  ON S.Course_Id = C.Course_Id;

STU_NAME
--------------------------------------------------
COURSE_NAME
--------------------------------------------------
Rajesh
Database Systems

Priya
Java Programming

Aman
OS Fundamentals


STU_NAME
--------------------------------------------------
COURSE_NAME
--------------------------------------------------

Computer Networks

Kajal
```