



Ahsanullah University of Science and Technology (AUST)
Department of Computer Science and Engineering

Offline 2

Course No.: CSE4126

Course Title: Distributed Database Systems Lab

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Submitted To-
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Question: Write a PL/SQL block to calculate the total number of enrolled students in each course. If the total number of enrolled students is greater than or equal to 5, display "Course is full." Otherwise, display "Seats available."

Solution:

```
SET SERVEROUTPUT ON;

SET VERIFY OFF;

DECLARE

    v_course_name VARCHAR2(30);

    v_enrolled_count NUMBER;

BEGIN

    FOR course_rec IN (SELECT c.cnum, c.cname FROM course c)

    LOOP

        SELECT COUNT(*) INTO v_enrolled_count

        FROM enrolled e

        WHERE e.cnum = course_rec.cnum;

        IF v_enrolled_count >= 5 THEN

            DBMS_OUTPUT.PUT_LINE('Course ' || course_rec.cname || ' is full.');
        ELSE

            DBMS_OUTPUT.PUT_LINE('Seats available for course ' || course_rec.cname || '.');

        END IF;

    END LOOP;

END;

/
```

Output:

```
Course Programming is full.
Course Database is full.
Course Drawing is full.
Seats available for course Circuit.
Seats available for course Electronics.
Seats available for course Algorithm.
Seats available for course System Analysis.
Seats available for course Mechanics.
```