1. Create the table name College with the following columns college id, college name,

College\_phone number, college\_email id, Total Strength . This table must contain

10 different records.

CREATE TABLE College (

college\_id NUMBER PRIMARY KEY,

college\_name VARCHAR2(100),

college\_phone NUMBER(15),

college\_email VARCHAR2(100) UNIQUE,

total\_strength NUMBER

);

INSERT INTO College VALUES (101, 'Easwari Engineering College', 9876543210, 'eec@srm.com', 5000);

INSERT INTO College VALUES (102, 'SRM Institute of Science', 9876543221, 'srmist@srm.com', 10000);

INSERT INTO College VALUES (103, 'PSG College of Technology', 9876543232, 'psgtech@psg.com', 7000);

INSERT INTO College VALUES (104, 'Anna University', 9876543243, 'annauniv@au.com', 12000);

INSERT INTO College VALUES (105, 'VIT University', 9876543254, 'vit@vit.ac.in', 15000);

INSERT INTO College VALUES (106, 'IIT Madras', 9876543265, 'iitm@iitm.ac.in', 8000);

INSERT INTO College VALUES (107, 'MIT Chennai', 9876543276, 'mit@mit.ac.in', 6000);

INSERT INTO College VALUES (108, 'NIT Trichy', 9876543287, 'nitt@nit.ac.in', 9000);

INSERT INTO College VALUES (109, 'SSN College of Engineering', 9876543298, 'ssn@ssn.edu', 7500);

INSERT INTO College VALUES (110, 'Loyola College', 9876543309, 'loyola@loyola.edu', 5500);

COMMIT;

SELECT \* FROM College\_Strength;

2. Handle the error of duplicate entry by show the error message.

DECLARE

v\_id NUMBER := 101; -- Trying to insert duplicate ID

BEGIN

INSERT INTO College VALUES (v\_id, 'Duplicate College', 9876543311, 'duplicate@edu.com', 6000);

COMMIT;

EXCEPTION

WHEN DUP\_VAL\_ON\_INDEX THEN

DBMS\_OUTPUT.PUT\_LINE('Error: Duplicate College ID found!');

END;

3. Handle the error of row not found by using the Exit and Continue handler for

display the strength of the college is different table using cursor.

CREATE TABLE College\_Strength (

college\_id NUMBER,

college\_name VARCHAR2(100),

total\_strength NUMBER

);

DECLARE

CURSOR college\_cursor IS SELECT college\_id, college\_name, total\_strength FROM College;

v\_college\_id College.college\_id%TYPE;

v\_college\_name College.college\_name%TYPE;

v\_total\_strength College.total\_strength%TYPE;

row\_not\_found EXCEPTION;

PRAGMA EXCEPTION\_INIT(row\_not\_found, -1403);

BEGIN

OPEN college\_cursor;

LOOP

FETCH college\_cursor INTO v\_college\_id, v\_college\_name, v\_total\_strength;

IF college\_cursor%NOTFOUND THEN

RAISE row\_not\_found;

END IF;

INSERT INTO College\_Strength VALUES (v\_college\_id, v\_college\_name, v\_total\_strength);

END LOOP;

CLOSE college\_cursor;

COMMIT;

DBMS\_OUTPUT.PUT\_LINE('College strength details stored successfully.');

EXCEPTION

WHEN row\_not\_found THEN

DBMS\_OUTPUT.PUT\_LINE('Error: No matching records found.');

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('An unexpected error occurred: ' || SQLERRM);

END;

**OUTPUT**

1. Table Created.

| **COLLEGE\_ID** | **COLLEGE\_NAME** | **TOTAL\_STRENGTH** |
| --- | --- | --- |
| 101 | Easwari Engineering College | 5000 |
| 102 | SRM Institute of Science | 10000 |
| 103 | PSG College of Technology | 7000 |
| 104 | Anna University | 12000 |
| 105 | VIT University | 15000 |
| 106 | IIT Madras | 8000 |
| 107 | MIT Chennai | 6000 |
| 108 | NIT Trichy | 9000 |
| 109 | SSN College of Engineering | 7500 |
| 110 | Loyola College | 5500 |

2. Error: Duplicate College ID found!

3. College strength details stored successfully.