|  |
| --- |
| **Problem Statement:** Create a procedure and a function that accept a zip code, city, and state as input and add these values to the zip\_code\_table. The function should verify if the zip code already exists in the database. If it does, an exception must be raised, displaying an appropriate error message. Additionally, write an anonymous block to demonstrate the use of the procedure by inserting a sample zip code |

**Source Code:**

|  |
| --- |
| CREATE OR REPLACE FUNCTION zip\_code\_exists(p\_zip\_code IN VARCHAR2) RETURN BOOLEAN IS  v\_count NUMBER;  BEGIN  SELECT COUNT(\*) INTO v\_count  FROM zip\_code\_table  WHERE zip\_code = p\_zip\_code;  RETURN v\_count > 0;  END zip\_code\_exists;  /  CREATE OR REPLACE PROCEDURE insert\_zip\_code( p\_zip\_code IN VARCHAR2, p\_city IN VARCHAR2, p\_state IN VARCHAR2 ) IS  zip\_exists EXCEPTION;  BEGIN  -- Check if the zip code already exists using the function  IF zip\_code\_exists(p\_zip\_code) THEN  RAISE zip\_exists;  ELSE  INSERT INTO zip\_code\_table (zip\_code, city, state)  VALUES (p\_zip\_code, p\_city, p\_state);  DBMS\_OUTPUT.PUT\_LINE('Zip code inserted successfully.');  END IF;  EXCEPTION  WHEN zip\_exists THEN  DBMS\_OUTPUT.PUT\_LINE('Error: Zip code ' || p\_zip\_code || ' already exists in the database.');  WHEN OTHERS THEN  DBMS\_OUTPUT.PUT\_LINE('An unexpected error occurred: ' || SQLERRM);  END insert\_zip\_code;  /  DECLARE  v\_zip\_code VARCHAR2(10) := '413007';  v\_city VARCHAR2(100) := 'Amalner';  v\_state VARCHAR2(100) := 'Maharshtra';  BEGIN  -- Call the procedure to insert the zip code  insert\_zip\_code(v\_zip\_code, v\_city, v\_state);  END;  / |

**OutPut:**

|  |
| --- |
|  |