

```
-- # TASK-4 # --

-- USE INVENTORY;

-- DROPPING THE EXISTING PROCEDURE BEFORE RE-CREATING IT
DROP PROCEDURE ADDPRO;
DROP PROCEDURE ADDSUPPLIER;
DROP PROCEDURE ADDCUST;
DROP PROCEDURE ADDORDER;

-- DELETING THE EXISTING DATA FROM THE TABLE
DELETE FROM PRODUCT;
DELETE FROM SUPPLIER;
DELETE FROM CUSTOMER;
DELETE FROM ORDERS;

-----

CREATE FUNCTION AUTOGENID (@ALP AS CHAR(1), @NUM AS INT)
RETURNS CHAR(5)
AS
BEGIN
    DECLARE @ALNUM AS CHAR(5)

    IF @NUM < 10
        SET @ALNUM = CONCAT(@ALP, '000', @NUM)
    ELSE IF @NUM < 100
        SET @ALNUM = CONCAT(@ALP, '00', @NUM)
    ELSE IF @NUM < 1000
        SET @ALNUM = CONCAT(@ALP, '0', @NUM)
    ELSE IF @NUM < 10000
        SET @ALNUM = CONCAT(@ALP, @NUM)
    ELSE
        SET @ALNUM = 'ERROR'

    RETURN @ALNUM
END;

-- CHECKING THE CREATED FUNCTION
SELECT DBO.AUTOGENID('P', 200) AS 'AUTO GENERATED ID';

-----

CREATE SEQUENCE IDS
AS INT
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 9999;
```

```
CREATE PROCEDURE ADDSUPPLIER @NAME VARCHAR(30), @ADDR VARCHAR(70),  
                             @CITY VARCHAR(20), @PHONE CHAR(14), @MAIL VARCHAR(40)
```

```
AS
```

```
BEGIN
```

```
    DECLARE @ID AS CHAR(5)
```

```
    DECLARE @VALUE AS INT
```

```
    SET @VALUE = NEXT VALUE FOR IDS
```

```
    IF @VALUE < 10
```

```
        SET @ID = CONCAT('S000',@VALUE)
```

```
    ELSE IF @VALUE < 100
```

```
        SET @ID = CONCAT('S00',@VALUE)
```

```
    ELSE IF @VALUE < 1000
```

```
        SET @ID = CONCAT('S0',@VALUE)
```

```
    ELSE IF @VALUE < 10000
```

```
        SET @ID = CONCAT('S',@VALUE)
```

```
    INSERT INTO SUPPLIER
```

```
    VALUES(@ID, @NAME, @ADDR, @CITY, @PHONE, @MAIL);
```

```
    SELECT * FROM SUPPLIER
```

```
    WHERE SID = @ID
```

```
END;
```

```
-- CHECKING THE CREATED PROCEDURE
```

```
ADDSUPPLIER 'DOT AND DASH ELECTRONICS', 'No.11 ponni nagar, pammal',  
            'Chennai', 9443024895, 'support@dnd.com';
```

```
-----
```

```
CREATE SEQUENCE IDP
```

```
AS INT
```

```
START WITH 1
```

```
INCREMENT BY 1
```

```
MINVALUE 1
```

```
MAXVALUE 9999;
```

```
CREATE PROCEDURE ADDPRO @PDESC VARCHAR(60), @PRICE INT,  
                        @CATEGORY VARCHAR(30), @SID CHAR(5)
```

```
AS
```

```
BEGIN
```

```
    DECLARE @ID AS CHAR(5)
```

```
    DECLARE @VALUE AS INT
```

```
    SET @VALUE = (NEXT VALUE FOR IDP)
```

```
    IF @VALUE < 10
```

```
        SET @ID = CONCAT('P000',@VALUE)
```

```
    ELSE IF @VALUE < 100
```

```
        SET @ID = CONCAT('P00',@VALUE)
```

```
    ELSE IF @VALUE < 1000
```

```
        SET @ID = CONCAT('P0',@VALUE)
```

```
    ELSE IF @VALUE < 10000
```

```
        SET @ID = CONCAT('P',@VALUE)
```

```
INSERT INTO PRODUCT
VALUES (@ID, @PDESC, @PRICE, @CATEGORY, @SID)
SELECT * FROM PRODUCT
WHERE PID = @ID;
END;

-- CHECKING THE CREATED PROCEDURE
ADDPRO 'iphone 11 pro',80000,'mobile','S0001';

-----

CREATE SEQUENCE IDC
AS INT
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 9999;

CREATE PROCEDURE ADDCUST @NAME AS VARCHAR(30), @ADDR AS VARCHAR(70),
                        @CITY AS VARCHAR(30), @PHONE AS CHAR(14), @DATE AS DATE
AS
BEGIN
    DECLARE @ID AS CHAR(5)
    DECLARE @VALUE AS INT
    SET @VALUE = (NEXT VALUE FOR IDC)

    IF @VALUE < 10
        SET @ID = CONCAT('C000',@VALUE)
    ELSE IF @VALUE < 100
        SET @ID = CONCAT('C00',@VALUE)
    ELSE IF @VALUE < 1000
        SET @ID = CONCAT('C0',@VALUE)
    ELSE IF @VALUE < 10000
        SET @ID = CONCAT('C',@VALUE)

    INSERT INTO CUSTOMER
    VALUES (@ID, @NAME, @ADDR, @CITY, @PHONE, @DATE);
    SELECT * FROM CUSTOMER
    WHERE CID = @ID;
END;

-- CHECKING THE CREATED PROCEDURE
ADDCUST 'Krishna', 'chennai-001', 'chennai', '9649871237', '09-11-1997';

-----

CREATE SEQUENCE IDO
AS INT
START WITH 1
INCREMENT BY 1
MINVALUE 1
MAXVALUE 9999;
```

```
CREATE PROCEDURE ADDORDERS @DATE AS DATE, @CID AS CHAR(5),  
                           @PID AS CHAR(5), @QTY AS INT
```

```
AS
```

```
BEGIN
```

```
    DECLARE @ID AS CHAR(5)
```

```
    DECLARE @VALUE AS INT
```

```
    SET @VALUE = (NEXT VALUE FOR IDO)
```

```
    IF @VALUE < 10
```

```
        SET @ID = CONCAT('0000',@VALUE)
```

```
    ELSE IF @VALUE < 100
```

```
        SET @ID = CONCAT('000',@VALUE)
```

```
    ELSE IF @VALUE < 1000
```

```
        SET @ID = CONCAT('00',@VALUE)
```

```
    ELSE IF @VALUE < 1000
```

```
        SET @ID = CONCAT('0',@VALUE)
```

```
    INSERT INTO ORDERS
```

```
    VALUES (@ID, @DATE, @CID, @PID, @QTY);
```

```
    SELECT * FROM ORDERS
```

```
    WHERE OID = @ID;
```

```
END;
```

```
-- CHECKING THE CREATED PROCEDURE
```

```
ADDORDERS '07-06-2021', 'C0001', 'P0001', 2
```

```
-----
```

```
-- DISPLAYING ALL THE CREATED RECORDS
```

```
SELECT * FROM SUPPLIER;
```

```
SELECT * FROM PRODUCT;
```

```
SELECT * FROM CUSTOMER;
```

```
SELECT * FROM ORDERS;
```