-- Create the database

CREATE DATABASE atliq\_tshirts;

USE atliq\_tshirts;

-- Create the t\_shirts table

CREATE TABLE t\_shirts (

t\_shirt\_id INT AUTO\_INCREMENT PRIMARY KEY,

brand ENUM('Van Huesen', 'Levi', 'Nike', 'Adidas') NOT NULL,

color ENUM('Red', 'Blue', 'Black', 'White') NOT NULL,

size ENUM('XS', 'S', 'M', 'L', 'XL') NOT NULL,

price INT CHECK (price BETWEEN 10 AND 50),

stock\_quantity INT NOT NULL,

UNIQUE KEY brand\_color\_size (brand, color, size)

);

-- Create the discounts table

CREATE TABLE discounts (

discount\_id INT AUTO\_INCREMENT PRIMARY KEY,

t\_shirt\_id INT NOT NULL,

pct\_discount DECIMAL(5,2) CHECK (pct\_discount BETWEEN 0 AND 100),

FOREIGN KEY (t\_shirt\_id) REFERENCES t\_shirts(t\_shirt\_id)

);

-- Create a stored procedure to populate the t\_shirts table

DELIMITER $$

CREATE PROCEDURE PopulateTShirts()

BEGIN

DECLARE counter INT DEFAULT 0;

DECLARE max\_records INT DEFAULT 100;

DECLARE brand ENUM('Van Huesen', 'Levi', 'Nike', 'Adidas');

DECLARE color ENUM('Red', 'Blue', 'Black', 'White');

DECLARE size ENUM('XS', 'S', 'M', 'L', 'XL');

DECLARE price INT;

DECLARE stock INT;

-- Seed the random number generator

SET SESSION rand\_seed1 = UNIX\_TIMESTAMP();

WHILE counter < max\_records DO

-- Generate random values

SET brand = ELT(FLOOR(1 + RAND() \* 4), 'Van Huesen', 'Levi', 'Nike', 'Adidas');

SET color = ELT(FLOOR(1 + RAND() \* 4), 'Red', 'Blue', 'Black', 'White');

SET size = ELT(FLOOR(1 + RAND() \* 5), 'XS', 'S', 'M', 'L', 'XL');

SET price = FLOOR(10 + RAND() \* 41);

SET stock = FLOOR(10 + RAND() \* 91);

-- Attempt to insert a new record

-- Duplicate brand, color, size combinations will be ignored due to the unique constraint

BEGIN

DECLARE CONTINUE HANDLER FOR 1062 BEGIN END; -- Handle duplicate key error

INSERT INTO t\_shirts (brand, color, size, price, stock\_quantity)

VALUES (brand, color, size, price, stock);

SET counter = counter + 1;

END;

END WHILE;

END$$

DELIMITER ;

-- Call the stored procedure to populate the t\_shirts table

CALL PopulateTShirts();

-- Insert at least 10 records into the discounts table

INSERT INTO discounts (t\_shirt\_id, pct\_discount)

VALUES

(1, 10.00),

(2, 15.00),

(3, 20.00),

(4, 5.00),

(5, 25.00),

(6, 10.00),

(7, 30.00),

(8, 35.00),

(9, 40.00),

(10, 45.00);