```
CREATE DATABASE DepartmentStoreDB;
USE DepartmentStoreDB;
CREATE TABLE ITEM (
  item_number INT PRIMARY KEY,
  name VARCHAR(100),
  department_number INT,
  price_per_unit DECIMAL(10, 2),
  quantity_in_stock INT,
  cost_per_unit DECIMAL(10, 2),
  FOREIGN KEY (department_number) REFERENCES DEPT(department_number)
);
CREATE TABLE EMP (
  employee_number INT PRIMARY KEY,
  name VARCHAR(100),
  annual_salary DECIMAL(10, 2),
  sales_commission DECIMAL(5, 2),
  department_number INT,
  FOREIGN KEY (department_number) REFERENCES DEPT(department_number)
);
CREATE TABLE DEPT (
  department_number INT PRIMARY KEY,
  name VARCHAR(100),
  manager_employee_number INT,
  FOREIGN KEY (manager_employee_number) REFERENCES EMP(employee_number)
);
```

```
CREATE TABLE SALES (
  sale_id INT AUTO_INCREMENT PRIMARY KEY,
  item_number INT,
  employee_number INT,
  sale_datetime DATETIME,
  quantity INT,
  sold_price DECIMAL(10, 2),
  FOREIGN KEY (item_number) REFERENCES ITEM(item_number),
  FOREIGN KEY (employee_number) REFERENCES EMP(employee_number)
);
2.
CREATE PROCEDURE insertsales (
  IN employee_number INT,
  IN item_number INT,
 IN quantity INT
)
BEGIN
  DECLARE current_price DECIMAL(10, 2);
  DECLARE sale_datetime DATETIME;
  SELECT price_per_unit INTO current_price FROM ITEM WHERE item_number = item_number;
  SET sale_datetime = NOW();
  INSERT INTO SALES (item_number, employee_number, sale_datetime, quantity, sold_price)
  VALUES (item_number, employee_number, sale_datetime, quantity, current_price);
END;
```

```
3.
CREATE TRIGGER trg_update_item_and_commission AFTER INSERT ON SALES
FOR EACH ROW
BEGIN
  UPDATE ITEM SET quantity_in_stock = quantity_in_stock - NEW.quantity WHERE item_number =
NEW.item_number;
  CALL updatecomm(NEW.employee_number, NEW.item_number, NEW.quantity);
END;
4.
CREATE PROCEDURE updatecomm (
  @EmployeeNumber INT,
  @ItemNumber INT,
  @Quantity INT
)
AS
BEGIN
  DECLARE @Profit DECIMAL(10, 2);
  DECLARE @Commission DECIMAL(10, 2);
  -- Calculate profit for the sale
  SELECT @Profit = (@Quantity * (price_per_unit - cost_per_unit))
  FROM ITEM
  WHERE item_number = @ItemNumber;
  -- Calculate commission (10% of profit)
  SET @Commission = @Profit * 0.10;
```

```
-- Update commission payable to the employee

UPDATE EMP

SET sales_commission = sales_commission + @Commission

WHERE employee_number = @EmployeeNumber;

END;
```