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-- Create the Royal Products database
CREATE DATABASE RoyalProducts;
USE RoyalProducts;
-- Alter tables with rp_ prefix
ALTER TABLE rp_customers (
  customer_id INT IDENTITY(100,10) PRIMARY KEY,
  customer_name VARCHAR(100) NOT NULL,
  customer_state CHAR(2) NOT NULL,
  credit_limit DECIMAL(10, 2) NOT NULL DEFAULT 5000.00,
  balance DECIMAL(10, 2) NOT NULL DEFAULT 0.00,
  PRIMARY KEY (customer_id),
  CONSTRAINT chk_customer_state CHECK (customer_state IN ('MI', 'IL', 'ON')),
  CONSTRAINT chk_credit_limit CHECK (credit_limit <= 18000.00),
  CONSTRAINT chk_balance CHECK (balance < credit_limit)
);
ALTER TABLE rp_reps (
  rep_id INT AUTO_INCREMENT=10,
 set SESSION auto_increment=5,
  rep_name VARCHAR(100) NOT NULL,
  commission_rate DECIMAL(4, 2) NOT NULL DEFAULT 4.00,
  PRIMARY KEY (rep_id),
  CONSTRAINT chk_commission_rate CHECK (commission_rate BETWEEN 3.00 AND 7.00)
);
CREATE TABLE rp_orders (
  order_id INT AUTO_INCREMENT,
  customer_id INT NOT NULL,
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order_date DATE NOT NULL,
  PRIMARY KEY (order_id),
  FOREIGN KEY (customer_id) REFERENCES rp_customers(customer_id),
  CONSTRAINT chk_order_date CHECK (order_date > '2021-01-01')
);
CREATE TABLE rp_products (
  product_id INT AUTO_INCREMENT,
  product_name VARCHAR(100) NOT NULL,
  product_class CHAR(2) NOT NULL,
  quantity_on_hand INT NOT NULL DEFAULT 0,
  price DECIMAL(10, 2) NOT NULL,
  PRIMARY KEY (product_id),
  CONSTRAINT chk_product_class CHECK (product_class IN ('HW', 'SG', 'AP')),
  CONSTRAINT chk_quantity_on_hand CHECK (quantity_on_hand BETWEEN 0 AND 150),
  CONSTRAINT chk_price CHECK (price BETWEEN 20.00 AND 2000.00)
);
CREATE TABLE rp_orders (
order_id INT AUTO_INCREMENT PRIMARY KEY,
order_date DATE,
UNIQUE INDEX (order_id)
) AUTO_INCREMENT = 1001;
CREATE TABLE rp_order_items (
Order_itens_id INT PRIMARY KEY,
Order_id INT,
Product_id,
Quantity INT,
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Price DECIMAL (10,2)

FOREIGN KEY (order_id) REFERENCES rp_order (order_id)

);

-- Add foreign key constraints

ALTER TABLE rp_orders

ADD CONSTRAINT fk_customer_id FOREIGN KEY (customer_id) REFERENCES rp_customers(customer_id);
```