Đáp án tham khảo Bài giảng thực hành

Môn: Nhập môn Cơ sở dữ liệu (INT2207)

Bài 1 + Bài 2: Những câu lệnh chỉnh sửa căn bản, tất cả có trong phần hướng dẫn.

Bài 3:

1. SELECT * FROM Employees WHERE reportsTo IS NULL
2. SELECT customerNumber FROM Orders
3. SELECT * FROM Orders WHERE requiredDate = '2003/1/18'
4. SELECT * FROM Orders WHERE requiredDate BETWEEN '2005/4/1' AND '2005/4/30' AND status = 'shipped'
5. SELECT * FROM Products WHERE productLine = 'Classic Cars'

Bài 4:

1. SELECT * FROM Customers WHERE city IN ('Nantes', 'Lyon')
2. SELECT * FROM Orders WHERE shippedDate BETWEEN '2003/1/10' AND '2003/3/10'
3. SELECT * FROM Products WHERE productLine LIKE '%Cars%'
4. SELECT * FROM Products ORDER BY quantityInStock DESC LIMIT 10
5. SELECT *, (quantityInStock*buyPrice) AS moneyLeft FROM Products

Bài 5:

1. SELECT SUBSTRING(productDescription, 1, 50) FROM Products AS titleOfProducts
2. SELECT CONCAT(' ', firstName, lastName) AS fullName, jobTitle FROM Employees
3. UPDATE ProductLines SET productLine = REPLACE (productLine, 'Cars', 'Automobiles')
4. SELECT *, DATEDIFF(requiredDate, ShippedDate) AS timeLeft FROM Orders ORDER BY timeLeft DESC LIMIT 5
5. SELECT * FROM Orders WHERE requiredDate >= '2005/5/1' AND requiredDate <= ADDDATE('2005/5/1', INTERVAL 30 DAY) AND shippedDate IS NULL
   (Với yêu cầu của đề, các bạn nên làm vậy, tuy nhiên có một câu lệnh đơn giản hơn là
   SELECT * FROM Orders WHERE requiredDate BETWEEN '2005/5/1' AND '2005/5/31' AND shippedDate IS NULL *cho ra kết quả tương tự)*

Bài 6:

1. SELECT city, COUNT(*) AS numOfCustomer FROM Customers GROUP BY city
2. SELECT requiredDate, COUNT(*) AS Total FROM Orders WHERE requiredDate BETWEEN '2005/3/1' AND '2005/3/31' GROUP BY requiredDate
3. SELECT EXTRACT(MONTH FROM requiredDate) AS Month, EXTRACT(YEAR FROM requiredDate) AS Year, COUNT(*) AS Total FROM Orders WHERE EXTRACT(YEAR FROM requiredDate) = '2005' GROUP BY Month
4. SELECT orderNumber, (quantityOrdered*priceEach) AS Value FROM orderDetails ORDER BY Value DESC LIMIT 10
5. SELECT productCode, SUM(quantityInStock) AS TotalEachProduct FROM Products GROUP BY productLine

Bài 7:

1. SELECT Employees.*, Offices.addressLine1 FROM Employees INNER JOIN Offices ON Offices.officeCode = Employees.officeCode
2. SELECT Customers.*, Products.productLine FROM Customers INNER JOIN Orders ON Orders.customerNumber = Customers.customerNumber INNER JOIN OrderDetails ON Orders.orderNumber = OrderDetails.orderNumber INNER JOIN Products ON OrderDetails.productCode = Products.productCode
3. SELECT Products.productLine, products.productName FROM Products LEFT JOIN OrderDetails ON Products.productCode = OrderDetails.productCode WHERE OrderDetails.quantityOrdered IS NULL
4. SELECT orderDate, requiredDate, status, (OrderDetails.quantityOrdered*OrderDetails.priceEach) AS TotalMoney FROM Orders INNER JOIN OrderDetails ON Orders.orderNumber = OrderDetails.orderNumber
5. SELECT productLine, COUNT(*) AS Total FROM Products GROUP BY productLine ORDER BY Total DESC

Bài 8:

1. SELECT products.productName FROM products WHERE productCode IN (select productCode FROM OrderDetails WHERE orderNumber IN (SELECT orderNumber FROM Orders WHERE requiredDate BETWEEN '2005/3/1' AND '2005/3/31'))
2. SELECT products.productName, Orders.requiredDate FROM Products INNER JOIN OrderDetails ON OrderDetails.productCode = products.productCode INNER JOIN

Orders ON Orders.orderNumber = OrderDetails.orderNumber WHERE Orders.requiredDate BETWEEN '2005/3/1' AND '2005/3/31'

3. SELECT * from Orders WHERE EXTRACT(MONTH FROM requiredDate) = EXTRACT(MONTH FROM (SELECT MAX(requiredDate) FROM Orders)) AND EXTRACT(YEAR FROM requiredDate) = EXTRACT(YEAR FROM (SELECT MAX(requiredDate) FROM Orders))

4. SELECT * FROM Orders, (SELECT orderNumber, (quantityOrdered*priceEach) AS Total from OrderDetails) AS tempTable WHERE tempTable.orderNumber = Orders.orderNumber

Bài 9: Các câu lệnh đơn giản, dễ áp dụng, các bạn tự kiểm tra.