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CS374 Database Management

HW2

From Book

EX02\_01

Specify the following queries in SQL on the COMPANY relational database schema shown in Figure 5.5. Show the result of each query if it is applied to the COMPANY database in Figure 5.6.

a. Retrieve the names of all employees in department 5 who work more than 10 hours per week on the ProductX project.

b. List the names of all employees who have a dependent with the same first name as themselves.

c. Find the names of all employees who are directly supervised by ‘Franklin Wong’.

1. Select e.Lname, e.Lname

From Employee e, Works\_on w

Where Dno = 5 AND w.Essn =e.Ssn AND Hours >10;

SELECT e.name

FROM Employee e, Dependent d

WHERE d.Dependent\_name = e.Fname;

1. SELECT e.name

FROM Employee e

WHERE e.Super\_ssn = 888665555;

EX02\_02

Specify the following queries in SQL on the database schema of Figure 1.2.

a. Retrieve the names of all senior students majoring in ‘cs’ (computer science).

b. Retrieve the names of all courses taught by Professor King in 2007 and 2008.

d. Retrieve the name and transcript of each senior student (Class = 4) majoring in CS. A transcript includes course name, course number, credit hours, semester, year, and grade for each course completed by the student.

1. SELECT name

FROM Student

WHERE Major = ‘CS’ AND Class =4;

1. SELECT c.Course\_name

FROM Course c, Section s,

WHERE c.Course\_number = s.Course\_number AND s.Instructor = ‘King’ AND s.Year = 07 OR 08;

1. d. SELECT c.Course\_name, c.Course\_Number, c.Credit\_hours, s.Semester, s.Year, g.Grade

FROM Course c, Section s, Grade\_Report g, Student st

WHERE st.student\_Number = g.Student\_number AND g.Section\_identifier = s.Section\_identifier AND s.Course\_number = c.Course\_Number AND s.Class =4;

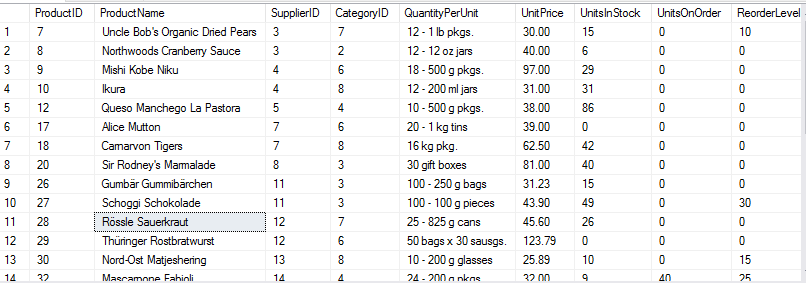
**From Northwind Database**

EX02\_03

Select \*

From dbo.Products

Where UnitPrice > 25.00;

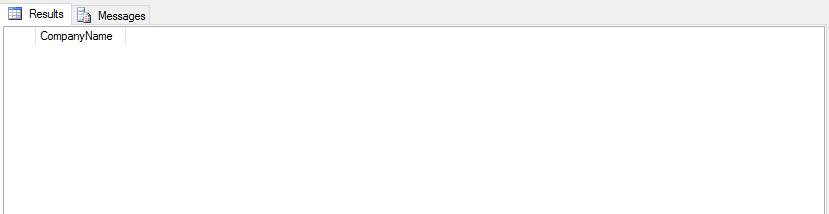


Ex02\_04

Select CompanyName

from dbo.Customers

Where Customers.ContactTitle != 'Owner' AND Customers.City = 'Chicago';

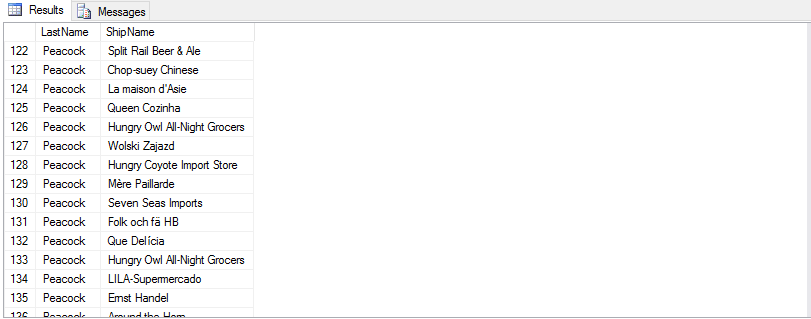


EX02\_05

Select e.LastName, o.ShipName

from dbo.Employees e, dbo.Orders o

Where e.EmployeeID = o.EmployeeID AND e.City = 'Redmond';



EX02\_06

Select ProductName

from dbo.Categories c, dbo.Products p

Where c.CategoryName = 'Beverages' AND p.Discontinued != 1;

