

Lesson Plan 11, ISTA-420

Chapter 7, T-SQL Fundamentals

August 23, 2017

1 Class Discussion

Pages: 213 — 230, chapter 7.

Pivot tables. Wide data and long data. Tables and crosstabs. Categorical and quantitative data.

1. What is a window function?
2. What does PARTITION do?
3. What does ORDER BY do?
4. What does ROWS BETWEEN do?
5. What is a ranking window function? Why would you use it? Give an example.
6. What is an offset window function? Why would you use it? Give an example.
7. What do LEAD and LAG DO
8. What do FIRST_VALUE and LAST_VALUE do?
9. What is an aggregate window function? Why would you use it? Give an example.
10. What is a pivot table and what does it do?

2 Graded Labs

1. List the customer orders by date, and for each give the total quantity ordered together with a running total. Use the Sqls.CustOrders view.
2. List the orders by order number, and for each order, list the line item giving the product ID, quantity ordered, the rank by quantity, and the dense rank by quantity. Use the Sales.OrderDetails table.
3. For each customer, list the order number, the amount of the order, the order total, and the percent of each order's total to the total of all the orders. Use the Sales.OrderValues view.
4. For each order, list the order ID, and line items consisting of the product ID, the unit price, the quantity ordered, the price per product, and a running total for each order. Use the Sales.OrderDetails view.
5. For each customer, list each order quantity, and in separate column, list tge quantity of each previous and each next order. Use the Sales.OrderValues view.
6. For each supplier, list the products by name, the individual price of eac product, and a running total of the individual prics.

3 Homework

Read chapter 7, pages 230 – 240 in the *T-SQL Fundamentals* book.