

Due: Thursday, March 15, 2007.

For the mail order database discussed in class:

- Modify the database so that the tables use foreign keys where appropriate. If you are using MySQL, the tables should be of type INNODB.
  - Populate the database with at least 30 customers, 10 employees, 5 zip codes, and 50 parts. Also insert around 100 orders (an average of 3 per customer), with each order containing an average of 2 parts.
  - Write SQL expressions that answer the following queries. The guidelines for preparing your submission are the same as they were for the previous homework. However, in the interests of saving a few trees, turn in your assignment by mailing it to me as a TEXT FILE attachment.
1. Get the names and cities of employees who have taken orders for parts costing more than 50.00.
  2. Get the names of customers who have ordered parts from employees living in Wichita.
  3. Get the names of customers who have ordered parts **ONLY** from employees living in Wichita.
  4. Get the names of customers who have ordered ALL parts costing less than \$20.00.
  5. Get the names of employees and their total sales for the year 2005.
  6. Get the employee id numbers and names of employees who have never made a sale to a customer living in the same zip code as the employee.
  7. For each customer get customer name and number of orders placed. Order customers by the number of orders placed and limit it to the top 3.
  8. For each customer get customer name and total cost of their orders. Order customers by total cost of all orders placed and limit it to the top 3.
  9. Get the names of parts that have been ordered the most, based on numbers sold.
  10. Get the names of parts along with the numbers of orders they appear in, sorted in decreasing order of the number of orders.
  11. Get the average waiting time, i.e. difference between date ordered and date shipped, for all orders in number of days.
  12. Get the names of customers who had to wait the longest for their orders to be shipped.
  13. Decrease by 15 percent the prices of parts that cost more than the average price of all parts.
  14. Delete all parts from the parts table for which no orders have been placed.
  15. Delete all the orders for customers living in Wichita.
  16. Transfer all the orders belonging to the employee with eno=1000 to the employee with eno = 1001.
  17. Delete all the orders for employees with the minimum sales.
  18. Delete from the customer table all customers who have placed fewer than two orders in the last two years.
  19. Delete from the employee table all employees through whom no orders have been placed in the last year.
  20. Increase the price of parts by 10% whose total quantity sold is greater than the average quantity sold for all parts for which orders have been placed.