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1) orders = load '/bigdata/orders/orders.txt' using PigStorage(',') as

   (order_number : int, customer_number : int);

   details = load '/bigdata/orders/details.txt' using PigStorage(',') as

   (order_number : int, line_number : int, item_name : chararray, quantity : int);

   gt100 = filter details by quantity > 100;
   gt100bolts = filter gt100 by item_name == 'bolt';

   jointoorders = join gt100bolts by order_number, orders by order_number;

   result = foreach jointoorders generate customer_number;
   dump result;

2) nobolts = filter details by item_name != 'bolt'

   leftoutertoorders = join nobolts by order_number leftouter, orders by order_number;

   custwithnobolts = filter leftoutertoorders by order_number is null;

   result = foreach custwithnobolts generate customer_number;

   dump result;

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3) orderedbolt = filter details by item-name = 'bolt';

ordered screw = filter details by item-name = 'screw';

joinscrewbolt = join orderedbolt by order_number, orderedscrew by order_number;

jointoorders = join joinscrewbolt by order_number, orders by order_number;

result = foreach jointoorders generate customer-number;

dump result;

4) joinordersdetails = join details by order-number left outer, orders by order-num;

grouped = group joinordersdetails all;

summed = foreach grouped generate customer_number, COUNT(order-number);

result = DISTINST summed;

dump result;