what operation has the most impact on performance? Propose an optimization for each query (ex. adding an index, changing the order of items in the SQL) that you think will improve the performance of the query.

1. **select** title, description, name  
   **from** film   
   **join** **language** **on** film.language\_id = language.language\_id   
   limit **300**
2. **select** customer\_id   
   **from** rental   
   **join** inventory **on** rental.inventory\_id = inventory.inventory\_id  
   **join** film **on** inventory.film\_id = film.film\_id  
   **where** film.title = **'MONTEZUMA COMMAND'**
3. **select** first\_name, last\_name, **sum**(amount)  
   **from** customer   
   **join** payment **on** customer.customer\_id = payment.customer\_id  
   **group** **by** customer.customer\_id, first\_name, last\_name
4. **select** **distinct** actor.\*  
   **from** actor   
   **join** film\_actor **on** actor.actor\_id = film\_actor.actor\_id  
   **join** film **on** film\_actor.film\_id = film.film\_id  
   **where** film.rental\_rate = **.99**
5. **select** first\_name, last\_name, address, city, country, postal\_code, phone   
   **from** customer   
   **join** address **on** customer.address\_id = address.address\_id   
   **join** city **on** address.city\_id = city.city\_id   
   **join** country **on** city.country\_id = country.country\_id   
   **where** customer\_id **in** (**select** customer\_id **from** rental **where** return\_date **is** **null**)
6. At Site C
   * Get a list of all products
7. At Site C
   * Print a customer invoice
8. At Site A
   * Create a new order for a customer. This involves creating the invoice and lines as well as updating the product and customer.
9. At Site B
   * Get a list of all customers
10. At Site B
    * Get a list of all the products.