The second step is performed at query time.
If q is a query, q' is essentially the context in which a search query is made
Suppose we search "bicycle" by highlighting it in a document. And it's surrounded by the following text

" The invention of the bicycle revolutionized personal transport. Early bicycles had large wheels and pedals

q' = bicycle, invention, revolutionized, personal, transport early, large, wheels, pedals

Ordinarily $q = q'$ since it's not done in context.

$$P(C_j | q') = \frac{P(C_j) \cdot P(q' | C_j)}{P(q')} \propto P(C_j) \cdot \prod P(q_i' | C_j)$$

C_j is topic. This is the equation used to see if a given q' belongs to topic C_j. $P(C_j)$ prob of topic $P(q_i' | C_j)$ is probability of term q_i' given topic C_j

Imagine a given context q' is "bicycle" invention wheel

$$P(C_j | q') \propto P(C_j) \cdot P(\text{"bicycle"} | C_j) \cdot P(\text{"invention"} | C_j) \cdot P(\text{"wheels"} | C_j)$$

$$S_{qd} = \sum_j P(C_j | q') \cdot rank_{jd}$$

↑ Given sensitive score for document d given q

$rank_{jd}$ The importance score of document d for topic C_j