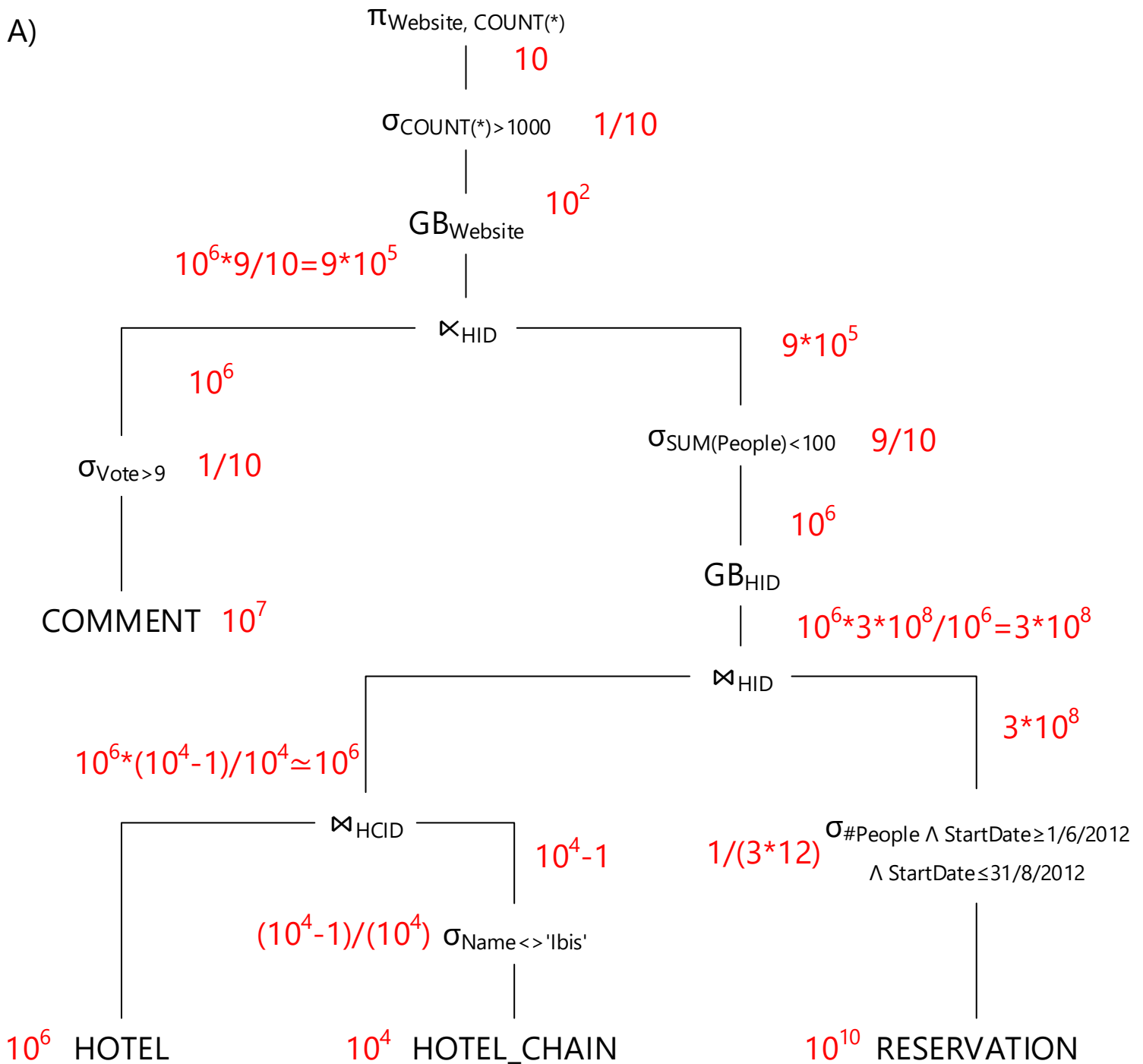
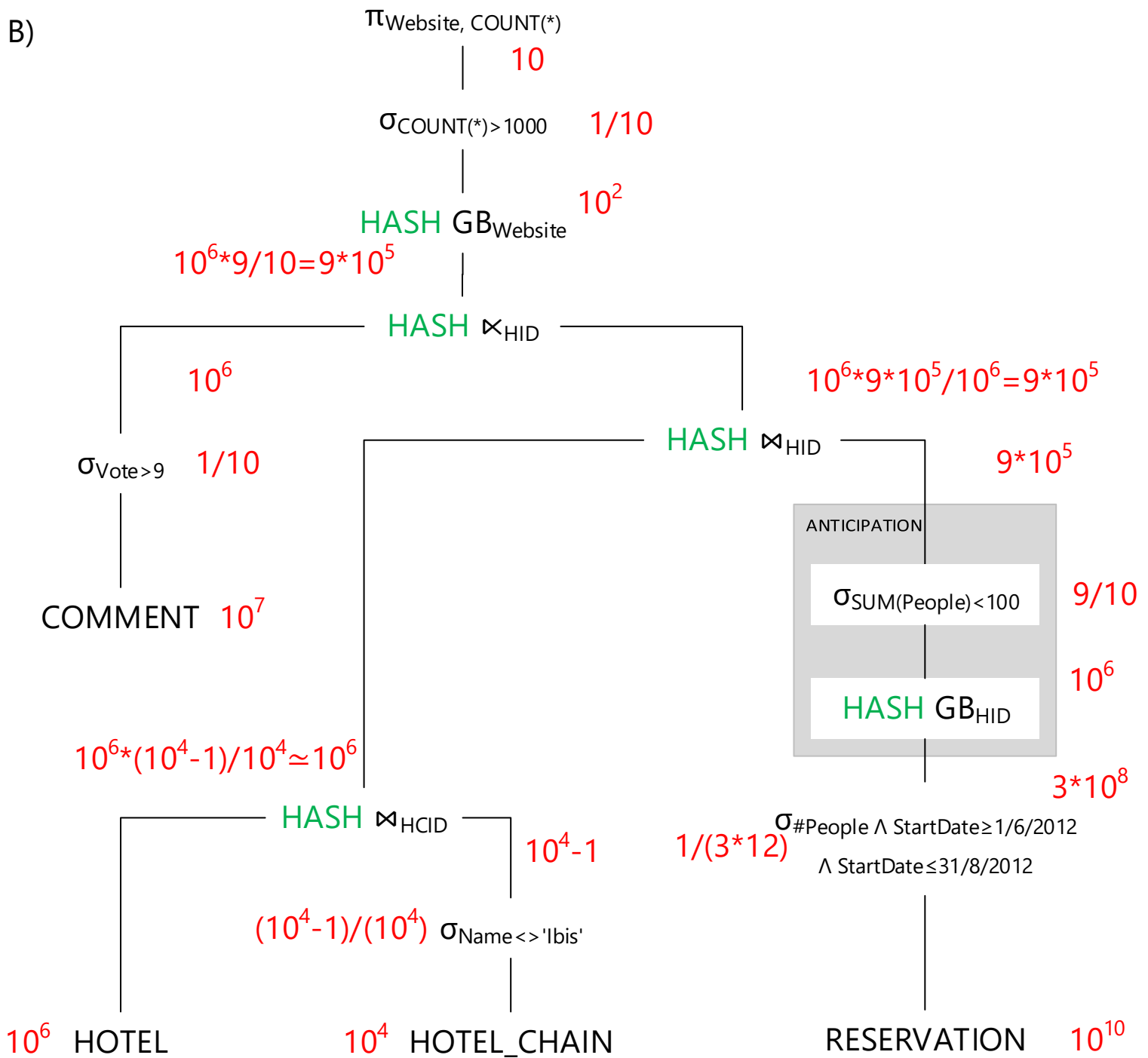


A)



- Data distribution assumptions: in table RESERVATION data is uniformly distributed on #People and on StartDate
- Group By anticipation: the Group By on HID can be pushed down in the subtree of RESERVATION because the HAVING condition uses attributes of this table, and the HID attribute is still available for the JOIN. Instead the the Group By on Website cannot be anticipated on the COMMENT subtree, because the attribute HID would be no more available for the SEMI JOIN.

B)



INDICES

- HOTEL: no index
- HOTEL_CHAIN: no index
- RESERVATION: secondary B+ tree on (StartDate, #People)
- COMMENT: secondary HASH on Vote

ACCESS PATH

- HOTEL: table access full
- HOTEL_CHAIN: table access full + filter
- RESERVATION: index RANGE scan + access by rowid
- COMMENT: index UNIQUE scan (Vote=10) + access by rowid