









(B) These stemming rules are case-specific. They'll generate meaningful words few types of words like in case of Rabbits but not meaning ful words in case of Cement. (i) -> Meaningful (6) may be semi- meaningful depending upon how we use it further).

(ii) -> Not meaningful (6) may be semi- meaningful depending upon how we use it further). (i) > Not meaningful (context is changed completely). - We can say, in general that these rule may worth work if these suffixes are added entry on the words. Like if plurals are given. But wouldn't work, if these are part of word meaning. ING suffix case wouldn't work for example - "Caution" will become - Caute which is meaning less y denses and the water me (C). Modification & Using "lemmatization" would be an appropriate sal? But, if we went to change these rules to improve accuracy, then -> we need to try to convert all possible form in one common stem form. So ING-> L'ing" can be completely removedy
MENT-> MENT & leave it as it isy. By _, we can also put cond? to have a chek On which wowel can oceur in case of INGs. e desperation from only sometimes of

T 6 No. of Documents > 1 M. 6 Vocabulary - so 1000 terme. Son ferm Document incidence matrix—>

Document id vectore corresponding to term. Terms. II to the terms of the t Issues to Drany term will be present in only a limited no. of Downerts. So, matrix will be a sparse matrix. It means that space will be wanted. D, -x entries in matrix => 103×106 =×109; so, size of will be very large of matrix, and memory can get full. Alternative -> Instead of term-document incidence matrix, inverted indexing method should be used. 0 Que @ x RDBMs can't be used for etryctured and

Trumstructured IR because 9 The database system. 0 the database system. Danger no. of returned (i). Using RBBMS would result is larger no. of returned result which will unnecessarily increase the processing 0 (ii) Users may not know how to write queries in RDBMS query languages. To search, users should have a proper knowledge about query languages.

C

- (1). RBBMS system is an unranked system. Co, in case of multiple results, it would not be able to present most relataballe and highest ranked results.
- D. On untructured dato, applying RDBMS is not good as the sexualt query can be wrong because of untructured info while trying to access RDBMS.

QueB - False. I Because if we don't applying stemming on query then stem of query term and term of its correct index term (if it exists) may be different for example while indexing, suppose we have converted word "flying" into "fly" & then squeed it in index, then if "flying" is present in query, then before searching, we need to convert this word also in its stem form "fly".

Due B - In map-reduce algo., parser is used in map

Those to distribute data of invester are used in reduce

Those to collect the data and bind it together.

structure > from -x Docid, term freq.

Pseudocode -> first input all data.

(a) Mob() for -> grake terms & T.f. as in put.

input (liet (k,v)); I liet of all townsy,

Poutionar (liet (k,v)); { partitioners are used to

alrebitable dataly,

(k,,v)) 7 (Mapper 0) 4 dictibute to Masters. Dato (K, VI)

Mapper D (every Katem is provided distributed to in' mappers). Mapper m de parridde de abroson de envois phase 101 pseudocode for Reducel) Combiner @ Reducers are used to collect data ... safer mich shirter -> Take input from all mappers for Kall termy in him him had when Take 18th term and it's partions. Combiner (K, Ciet(V));) modante > Output (K, lict(V))) Reducer o (k,,vi) Reducer! K,v., Poetings for example? ("Hello", 1) } Reduced Reduced Reduce phase (Hell.o, 3) 0 ("Hello", 1) ("Hello", ') C 1 input taken from phase