


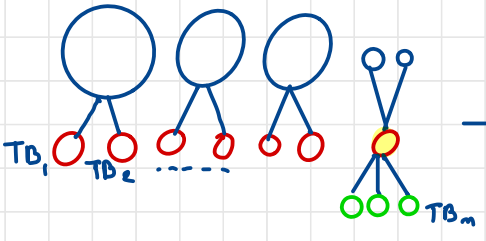
The DREAM framework, distribution engine

Input:

- DB sequences
- User bins, Transform. T_1
- Binning % id.

UB_1 UB_2 UB_3

 3% UB_4 UB_5

Bin partitioning:



Mapping $UB \leftrightarrow TB$

TB_n levels

query string, % id

↓

Balanced Binning direct. BBD

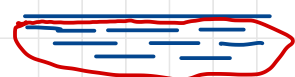
- Ser level a **TBD**.
- Logic to query levels

↓

list of TB (as hitvector)

Technical binning directions

→ list of TB_n 

→ \forall strings 
 Transform set of k-mers with T_1

 →

query string $\xleftarrow{T_1}$

Set membership DS, i.g. IBF

list of k-mer occ.

query in TB_n, \dots

↑

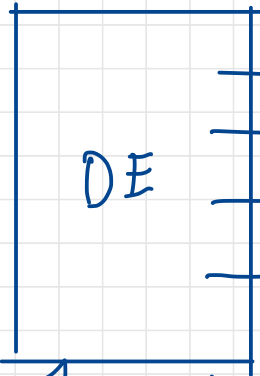
filter (count, % id, Jaccard, ..)

The DREAM framework

Input:

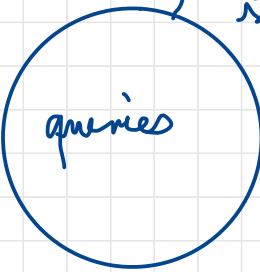
- DB sequences
 - User bins, Transform. T_i
 - Binning % id.
- UB_1 UB_2 UB_3
-
- 3% UB_4 UB_5

construct distrib. engine DE



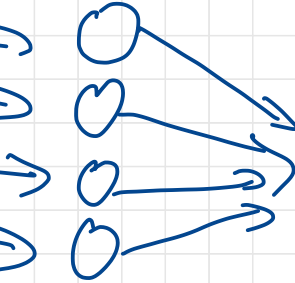
- Method (e.g. MapKp)
- queries
- strings with inter.
- error bounds
- quantitative contr.
- qualities

method dep. preprocess.

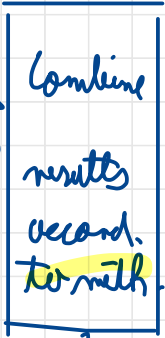


asynch. streaming

preprocess for method



offloading of method



results of method