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New Horizon Institute of Technology & Management Page No.:

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## EXPERIMENT NO: 06

Aim: To implement Flajolet Martin Algorithm using Python programming language.

System software requirements: Python

Theory:

\* Data Stream Management System (DSMS)

- Any number of atriams can enter the system. Each obream can provide elements at its own schedule; they do not have the same data rates or data types, and the time between elements of one stream need not be imiform.

The fact that the rate of arrival of stream elements is not under the control of the system distinguishes stream processing from processing of data that goes on within a database -

The latter system controls the rate at which data is read from the disk, and therefore never has to worry about data getting lost as it attempts to execute queries.

Streams may be archived in a large archival store, but we assume it is not possible to answer queries from the archival store

A data stream management system (DSMS) is a computer software system to management of data streams. It is similar to DBMS.

Count - Distinct problem

The count-distinct problem is the problem of finding the number of distinct elements in a data stream with repeated elements.

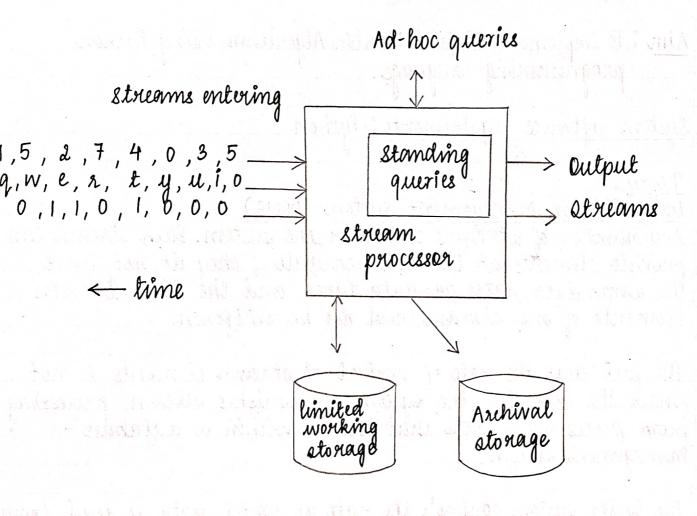


Fig: Data-stream management system

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This is a well-known proble	m_with_numerous_applications.
The elements might represer through a router, imique viladabase, molifs in a sensor networks.	rt IP addiesses of packets passing is itoms to web site, elements in DNA sequence, or elements of the
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Flajolet Mardin Algorithm:	
Flajolet Mardin Algorithm:	
Flajolet Martin Algorithm: FM algorithm is used to a elements in a data stream	upproximate the number of imigator database in one pass.
Flajolet Mardin Algorithm:	upproximate the number of imigator database in one pass.
Flajolet Martin Algorithm: FM algorithm is used to a elements in a data stream. At uses less memory space i	upproximate the number of imigative database in one pass.  while executing.
Flajolet Martin Algorithm: FM algorithm is used to a elements in a data stream. At uses less memory space i	upproximate the number of imigative database in one pass.  while executing.
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Conclusion:
Thus we have accessfully implemented Flajolet Martin
Algorithm using Python longuage.