



## Accessing Data Efficiently Through Skyline Technique on User Behavior Analysis

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### ABSTRACT:

*A smart home is new concepts which have been popular at home and abroad. Due to the rapid development of smart home, a large amount of life data have been accumulated, and these data contain a lot of information about user behaviour, they shows user's activity truly and objectively. But these data exist in multiple data sources, such as computers, smart phones, and smart televisions and so on. So we have to gather this data and make the right model to find user behaviour. Now we propose technique that searches any record with the help of characteristics of user behaviour by using skyline technique. Using it, user gets expected result of file that they always want. We design skyline query for incomplete data set which gives better result*

*Keywords:- User Behavior, Skyline query*

conducted including mining towards the massive data . This massive data associated with our life and it find out the potential information that users preferred

### II. LITERATURE REVIEW

**Bo yin et al.** This paper execute framework that emphasis on At home and abroad, savvy home, after over ten years improvement is getting more consideration and support. Presently a day, there is the quick advancement of keen home, a lot of life information have been aggregated, and these information contain a great deal of data about client conduct. They can mirror the client's action genuinely and impartially, yet these information present in diverse information sources, for example, PCs, PDAs, savvy TVs. Krishna Kumar, D. Amrita, N. SwathiPriya et al. This paper actualizes another way to deal with prune and channel found principles. To begin with, we propose to utilize ontologies to enhance the combination of client learning in the post preparing errand. Second, we propose the Rule Schema formalism developing the detail dialect, which help in taking choice.

**IrmaFatima, Muhammad Fatima, Young-Koo Lee et al.** This paper execute action acknowledgment in keen homes is a dynamic exploration territory because of its relevance in numerous applications, for instance as assistive living and social insurance. Other than movement acknowledgment,

### I. INTRODUCTION

personalized services to different people under the specific conditions such as a particular time or place, seems to become a more and more important issue .As an important part of the data mining technology, association rule mining aims at investigating how to find out the underlying rules and links through the massive amounts of data. Through this method, it could be helpful with the decision-making. Furthermore, Apriori algorithm is probability-based Boolean association rules mining algorithm . It uses the knowledge of frequent item sets and iterative search method, through this progressive way it shall identify the relationship among those items then form a rule. This paper is based on the method of Apriori algorithm which is a series of deep research will be

the data gathered from brilliant homes has enormous potential for other application spaces like way of life investigation, security.

**Bourget C, Kruse et al.** This paper actualize technique affiliation guideline prompting strategy additionally called market crate investigation which is utilized to discover regularities in shopping conduct of client of store, online shop. With the assistance of prompting affiliation principle on tries to discover arrangement of item that are habitually united .The significance of tenet is measured by two parameter. One is bolster which is the percentage of exchange that the guideline can be connected. Second is the certainty which is the quantity of cases in which it is relevant.

**Bay VO,Bac Le et al.** This paper executes another calculation for mining summed up affiliation guideline. The calculation filters database one time just and Tidset to registers backing of generalized item set speedier. This calculation mine thing set hierarchal database with least support.

**Rahul Bharuka, P Sreenivasa Kumar et al.** This paper preferences quires returns answer which are relevant to the user requirements. The subclass of preference query called skyline query that retrieve result over incomplete data set. It is widely use in personalization, multicriteria decision making or search space pruning .this paper propose efficient SIDS(Sort-based Incomplete Data Skyline) algorithm for computing skyline point over dataset.

**Mohamed E. Khalefa Mohamed F. Mokbel Justin J. Levandoski et al** .This paper focus on the problem of skyline over incomplete data where multidimensional data are missing some values of their dimension. This paper implements two algorithms Replacement and Bucket algorithm that use variation of traditional skyline algorithms

to deal with incomplete data. The propose technique of Iskyline algorithms which is specially designed for incomplete data .it uses two technique virtual point and shadow skyline to exploit properties of incomplete data.

**Kian Lee Tan ,Pin –KwangEng et.al** This paper focus on the set of interesting answer called skyline from database.In this paper the set of point , comprises the point that are not dominated by other. The better or good point dominate other in all dimension. It uses Bitmap and Index Algorithm.

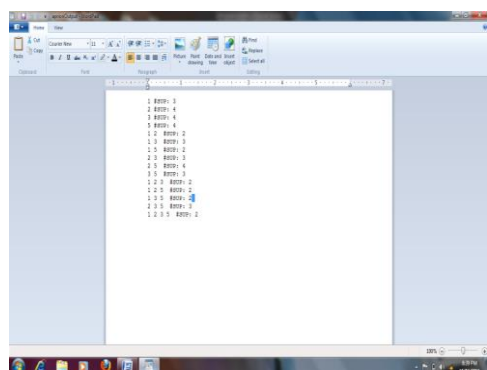
**Yufei Tao, Dimitris Papadias, Greg Fu, Bernhard Seeger et.al** In this paper skyline of d-dimension dataset contain the point that are not dominated by other in all diamension.The progressive is the method which can quickly returns initial result without reading all database. This paper use BBS(Branch and Bound Skyline) algorithm.

### III. PROPOSED TECHNIQUE

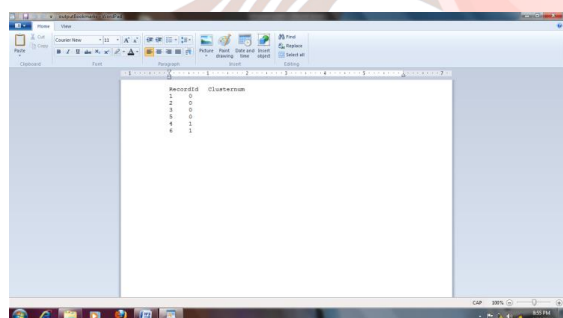
Existing system consist of user behaviour model which consist of four parts data acquisition, data pre-processing, data mining, and analysis of result. Data acquisition will collect data from different component unit of smart home and data pre-processing will integrate isomerization data that come from different terminals to improve the quality of data mining. In the part of data mining, we will analyse the data by means of association rules, and get the predictable results ultimately.

- We can collect user data ,such as bookmarks ,browsing history and message logs of user. This parameter will help us to finding user behavior.
- In next step we use apriori algorithms and k-means algorithm for processing data. By using this algorithm we can achieve existing system.
- In last step we apply association rule and skyline technique.

Apriori algorithm: Apriori algorithm is working like scan and count .the frequency of viewing and clicking of every object in first database and find out frequent item set by comparing minimum support. The result can be shown as



K-means: K-means clustering is a method of vector quantization originally from signal processing that is popular cluster analysis. It generally aims to partition into k cluster in which each observation belongs to cluster with nearest one.



In proposed method we can apply skyline technique to the existing data set .the data set contains all the information gathers from different devices. With the help of skyline technique user search any record which is they always want.

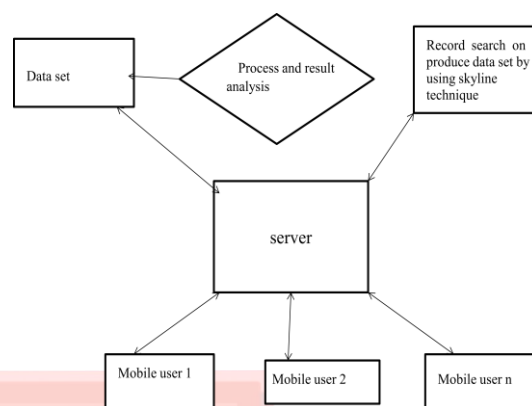


Fig: 1 System Architecture of proposed system

#### IV. CONCLUSION

Generally we cannot retrieve data which is present at different electronic device such as smart phone, smart television, tablet pc etc. by single device. So that our aim is to retrieve that data by single device. This paper implement a technique that collect the data which is present in different source and find the user behavior according to behavior analysis model. This will help the user for searching record as the always want .In proposed system we apply skyline technique over present data set for finding efficient result .This technique gives better result even if the data is incomplete.

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