

ABSTRACT

- An Order-Preserving Encryption (OPE) scheme is a deterministic cipher scheme, whose encryption algorithm produces cipher texts that preserve the numerical ordering of the plain-texts. It is based on strictly increasing functions
- It is a kind of homomorphic encryption where the homomorphic operation is order comparison. This means that comparing encrypted data provides the exact result than comparing the original data.
- It is attractive to be used in databases, especially in cloud ones as a method to enhance security, since it allows applications to perform order queries over encrypted data efficiently (without the need of decrypting the data).
- Wireless sensor network is another potential domain in which order preserving encryption can be adopted and used with high impact. It can be integrated with secure data aggregation protocols that use comparison operations to aggregate data (MAX, MIN, etc.) in a way that no decryption is being performed on the sensor nodes, which means directly less power consumption.

EXISTING SYSTEM

- Currently, it is common for professional stockbrokers to try to extract relationships from different stocks by analyzing past trading graphs thoroughly.
- In addition, more available stock system software predictions can be used by stock investors to help them generate fast stock market forecasts
- Stocks or shares, in this study we do not distinguish stocks and shares, is the relationship of ownership between the company and shareholders.
- There are two types of stock in the classification of shares in general, namely 1) preferred stock and 2) ordinary shares.
- Preferred stock is a stock that has a special right in the company (for example: distribution of previously received corporate profits rather than other shareholders) whereas ordinary shares are shares that have no more rights than the general right to obtain the profit in accordance with the profit-sharing schedule which held in the Annual General Meeting of Shareholders (AGMS).

PROPOSED SYSTEM

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The cluster analysis used in this method is k-means algorithm, the data in this research is taken from Indonesia Stock Exchange. The cluster analysis in this study analyzed the characteristics of data volumes and stock values, while the results in this study were presented in the form of cluster members

CONTD..

- investing stocks, first, buying and store these shares so the benefit came from the profit distribution of dividends (dividends) and second, stock buying and selling back, the benefit will come from the deviation between the sale and purchase value (capital gain).
- Purchase of shares in general can be done in two ways, purchased when the stock will rise and start when Initial Public Offering (IPO) and purchased through the secondary market or through the stock market.

ADVANTAGE

- Data Exploration is a preliminary examination of the data to determine its main characteristics and determine the best approach for extracting meaningful information.
- The main purpose is to encourage in deciding the most appropriate preprocessing and data analysis techniques to overcome the pre-processing mistakes, there are several processes to be taken, such as cleaning, integration, transformation, reduction of news reports.
- This shows the missing value filling, combines the report by relevance and consolidates the data by replacing the original information using the news aggregator.
- Once the stored data is processed in pre-processing data stored in the data repository. The data repository contains data that has been cleared

HARDWARE REQUIREMENTS

- Processor
- Speed
- RAM
- Hard Disk
- Floppy Drive
- Mouse

Monitor

- Pentium -III
- 1.1 Ghz
- 256 MB(min)
 - 20 GB
 - Standard Windows Keyboard
 - Two or Three Button Mouse
- **SVGA**

SOFTWARE REQUIREMENTS

- Operating System
- Front End
- Database

- Java / DOTNET : Mysql/HEIDISOL

CONCLUSION

- In this article, we provided a sharp description of various order preserving encryption schemes. In addition, various design issues such as data confidentiality, data integrity, ef-ficiency level, and security of these OPE schemes have also been discussed and evaluated.
- And, based on the data generated in the comparative table of this paper, we have proposed a novel secure order preserving encryption scheme that can suit a wireless sensor network, in terms of efficiency, complexity, and security.
- The implemented OPE scheme is based on a logarithm encryption function which makes the scheme very efficient and less complex compared to other OPE schemes.
- In addition, and to enhance the security level of this OPE scheme, the symmetric encryption key is updated based on a T period of time, so it can minimize the era of the key k(a,b). In consequence, it is very hard for any attacker to discover the

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