**SYSTEM ANALYSIS**

**EXISTING SYSTEM:**

 Original plain data must be accessible only by trusted parties that do not include cloud providers, intermediaries, and Internet; in any untrusted context, data must be encrypted. Satisfying these goals has different levels of complexity depending on the type of cloud service. There are several solutions ensuring confidentiality for the storage as a service paradigm, while guaranteeing confidentiality in the database as a service (DBaaS) paradigm is still an open research area.

**DISADVANTAGES OF EXISTING SYSTEM:**

* Cannot apply fully homomorphic encryption schemes because of their excessive computational complexity.

**PROPOSED SYSTEM:**

* We propose a novel architecture that integrates cloud database services with data confidentiality and the possibility of executing concurrent operations on encrypted data.
* This is the first solution supporting geographically distributed clients to connect directly to an encrypted cloud database, and to execute concurrent and independent operations including those modifying the database structure.
* The proposed architecture has the further advantage of eliminating intermediate proxies that limit the elasticity, availability, and scalability properties that are intrinsic in cloud-based solutions.
* Secure DBaaS provides several original features that differentiate it from previous work in the field of security for remote database services.

**ADVANTAGES OF PROPOSED SYSTEM:**

* The proposed architecture does not require modifications to the cloud database, and it is immediately applicable to existing cloud DBaaS, such as the experimented PostgreSQL Plus Cloud Database, Windows Azure and Xeround .
* There are no theoretical and practical limits to extend our solution to other platforms and to include new encryption algorithm.
* It guarantees data confidentiality by allowing a cloud database server to execute concurrent SQL operations (not only read/write, but also modifications to the database structure) over encrypted data.
* It provides the same availability, elasticity, and scalability of the original cloud DBaaS because it does not require any intermediate server.