Cloud Database as a service

**Abstract**

Nowadays if organizations or individual users want to manage their data and reports online, they have to purchase a domain on internet and get the web application developed from IT Company which goes very costly therefore to decrease the cost of users we can develop an online cloud based database provider service application which manages users data online and generates reports as per customers requirement. This application is an online database GUI editor in which developers can easily serve their customers without writing queries directly. Only for complex queries, developer has to write query in online editor. End users can communicate with their developers to create their required databases. User can perform all database operations on it with the help of developers. User can generate reports by their own as well as with the help of their developers. Along with database as a service we also proposed database encryption as a service for those users who wants their data to be stored in encrypted format.

If cloud tenant subscribe encryption service, their data will be kept in their database in encrypted format. To encrypt database data, we proposed homomorphic ie format preserving encryption algorithm.