**Encrypted Database as Service**

1. **What is DBaaS?**

The DBaaS model is a fee-based subscription service in which the database runs on the service provider's physical infrastructure. Different service levels are usually available. In a classic DBaaS arrangement, the provider maintains the physical infrastructure and database, leaving the customer to manage the database's contents and operation.

1. **Application modules**
2. *Crypto module:*

Contains definitions for cryptographic primitives such as encryption and decryption for the user data.

1. *BST module:*

Contains implementation for the client BST structure which will contain plaintext and ciphertext

*c)Server module* :

Client session management and ensure data consistency. Note that on the server the data goes encrypted.

*d)Data module:*

SQL Proxy database cloud deployment

*e)UI module:*

Provides an user friendly interaction use of application.