A Secure, Privacy-Preserving Data Exchange/Computation Platform for the Smart Nation (e-commerce/Block Chain by A/P Ng Wee Keong)

Prisma/DB is a database encryption solution that provides per-column encryption granularity and enables operations over encrypted columns without ever sharing private keys with the database server. Prisma/DB is a result of years of meticulous research done within Cyber Security Lab of Nanyang Technological University. Prisma/DB is able to provide this functionality by putting together many well-established cryptosystems as well as results of in-school research and development, and making them work together in a seamless way. Leveraging the deep integration with the SQL query language and the database protocols, Prisma/DB is fully transparent for any application and could be installed in a plug-and-play manner.