* The Firebase Realtime Database is a cloud-hosted database. Data is stored as JSON and synchronized in real-time to every connected client. When you build cross-platform apps with our iOS, Android, and JavaScript SDKs, all of your clients share one Realtime Database instance and automatically receive updates with the newest data.
* **Types of firebase:**

Firebase offers two cloud-based, client-accessible database solutions that support realtime data syncing:

1. **Cloud Firestore** is Firebase's newest database for mobile app development. It builds on the successes of the Realtime Database with a new, more intuitive data model. Cloud Firestore also features richer, faster queries and scales further than the Realtime Database.
2. **Realtime Database** is Firebase's original database. It's an efficient, low-latency solution for mobile apps that require synced states across clients in realtime.

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| **Cloud Firestore** | **Realtime Database** |
| advanced querying, sorting and transactions, for example in ecommerce apps | Primarily synchronizing data, with basic querying. |
| Hundreds of GBs to TBs of data that is read much more often than it is changed. | A few GBs or less of data that changes frequently. |
| **Stores data as collections of documents.** | **Stores data as one large JSON tree.** |
| For sophisticated querying capabilities on local data when the user is offline | app will need to perform queries  Rarely or never. |
| If we need a single database we can prefer this. | When we need to add multiple databases to a single Firebase project we use this |
| **Not supported natively.** We can leverage Realtime Database's support for presence by syncing Cloud Firestore and Realtime Database using Cloud Functions | Firebase Realtime Database can record client connection status and provide updates every time the client's connection state changes |
| **Indexed queries with compound sorting and filtering** | **Deep queries with limited**[sorting and filtering functionality](https://firebase.google.com/docs/database/web/lists-of-data#sorting_and_filtering_data)**.** |