Assessment

1. Explain "database indexing" to different audiences

a) As an Engineer

Database indexing is a mechanism that helps the database **LOCATE DATA FASTER**.

Instead of scanning every row in a table, the database uses an **INDEX STRUCTURE**—commonly a B-tree—to jump directly to the required records.

b) As a Product Manager

Database indexing is how we make sure our product feels **FAST AND RESPONSIVE**.

When users search, filter, or load data, indexing helps the system retrieve results **IMMEDIATELY**, instead of scanning everything in the background.

c) As a Product Sales Person

Database indexing is what makes our platform **FEEL INSTANT** to customers

Without indexing, finding data is slow. With indexing, the system knows **EXACTLY WHERE TO LOOK**.

d) CEO's Answer

Database indexing is one of the reasons our technology **SCALES WITH CONFIDENCE**.

It allows our systems to retrieve critical information quickly, even as data volumes grow exponentially.