what is primary and secondary files in DB

1.primary file: is file that contain startup information in database and points to the other files in database, and every database have one primary file.

2.Secondary files: is optional  user defined  data files, data can be spread across multiple disks by putting each file in disk drive.

what is the extension of .mdf , .ndf and .ldf files and what they contain

1. .mdf: is extension for the primary files in database and it contains startup information in database and points to the other files in database.
2. .ndf: is extension for the secondary files, and it’s optional  user defined  data files, data can be spread across multiple disks by putting each file in disk drive.
3. .ldf: is extension for transaction log files it holds information used to recover the database, there must be a at least one in each database.

what are files and filegroups

1. Files: are actual physical structures on disks where sql server stores data and log information.
2. filegroups: is a logical container that groups one or more files A **filegroup** is a **logical container** that groups one or more data files. It's used to:
3. **Organize** data.
4. **Control** where data is stored.
5. **Improve performance** by placing different filegroups on different disks.

what is Normalization and what’s the difference btw the output of mapping and Naormalization

what is Denormalization and when in business we need this

what the meaning of clusterd in harddisk by primary key