Types Of SQL Queries That Can Use Indexes :

Search or Filter Queries

- Select with Where
- ex : Select * from Product where name = 'apple'
- usually cluster index or non cluster index for this type of queries

Join Queries

- Select With Join
- ex : Select * from product inner join productBarcode on productBarcode. ProductID = product.ID
- usually non cluster index for this type of queries
- entity framework core create by default non cluster index for every foreign key , this help engine on execute join query faster , because the engine will use Merge Join algorithm instead of nested loop algorithm

Summary Queries

- Select with aggregate functions like sum , count
- ex : select sum(price) from product
- usually column index used for this type of queries