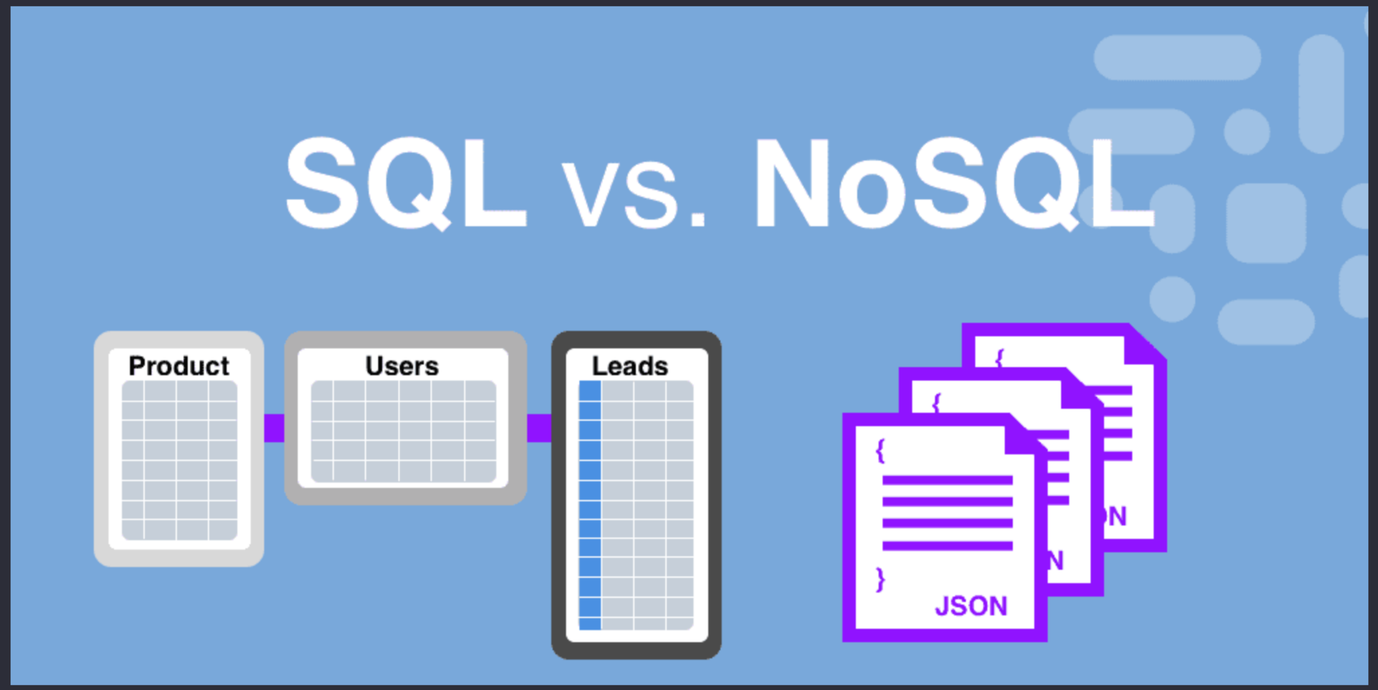
Entity Relationship Diagrams & Databases

SQL Vs NoSql



What's the difference?

The major difference between SQL and NoSQL databases is the presence of relationships. SQL needs and depends on certain relationships to be present where noSQL databases do not.
NoSQL Databases usually store infomration inside of documents also.

SQL Databases: MySQL , Oracle, SQLite, Postgres, MS-SQL

NoSQL Databases: MongoDB, Firebase, Cassandra, Redis

The ERD Entity Symbol

ERD Entity

Entities represent a potential table in a Database

These shapes are independent from other entities, meaning they can stand alone if a relationship is not present/needed. They will also have a primary key most of the time.

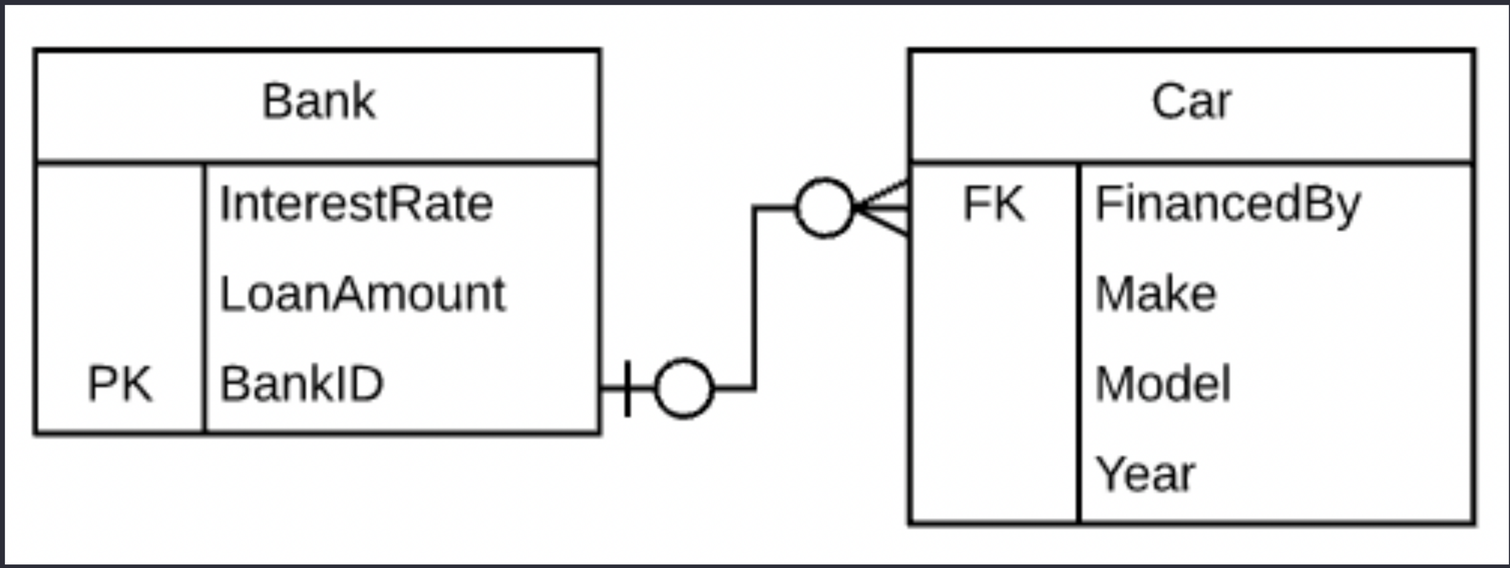
Primary and Foreign keys

Primary keys

Primary keys are an attribute of combination of attributes that uniquely identity on and only one instance of an entity.

Foreign keys

Foreign keys are created any time and attribute relates to another entity in a one-to-one or one-to-many relationship.



Cardinality

Cardinality refers to the maximum number of times an instance in one entity can relate to another. Cardinality is usually shown by using lines and different end-points