



@dynamic.coding

Python SQL Dynamic Coding

Types Of Keys In SQL

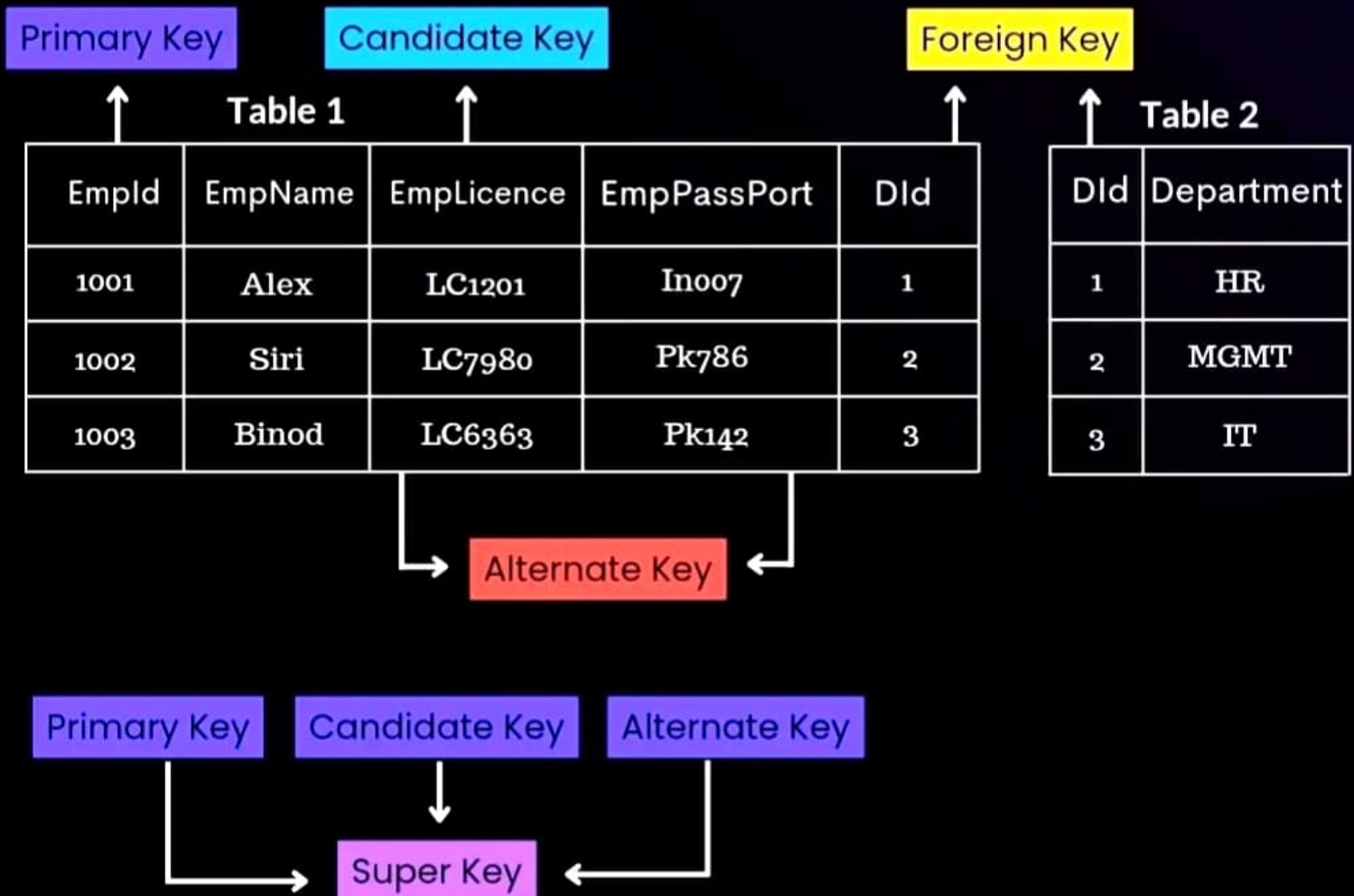


What is a KEY in SQL?

A key in SQL is an attribute or a set of attribute which helps you uniquely identify a record or a row of data in a relation/table.

Types Of Key:

In This post, we are going to see five common types of keys available in SQL.



1. Primary Key:

A primary key is a table attribute or column that identify every record present in a table uniquely.


There can be only one primary key attribute in a table and primary key column element can;t be same or has Null value.

Empld	EmpName	EmpLicence	EmpPassPort	DId
1001	Alex	LC1201	In007	1
1002	Siri	LC7980	Pk786	2
1003	Binod	LC6363	Pk142	3

In the above table, Empld is the primary key.

2. Super Key:

It is the set of columns that helps to identify rows in a table uniquely.



EmpId	EmpName	EmpLicence	EmpPassPort
1001	Alex	LC1201	In007
1002	Siri	LC7980	Pk786
1003	Binod	LC6363	Pk142


3. Candidate Key:

A candidate key is a column or a set of columns that can qualify as a primary key in the database.

There can be multiple candidate keys in a table and only one candidate key can qualify as the primary key.

The candidate key other than the primary key is called an **Alternate Key**.

Candidate Key



EmpId	EmpName	EmpLicence	EmpPassPort
1001	Alex	LC1201	In007
1002	Siri	LC7980	Pk786
1003	Binod	LC6363	Pk142

4. Composite Key:

It is a set of two or more attributes that helps to identify each tuple in a table uniquely.

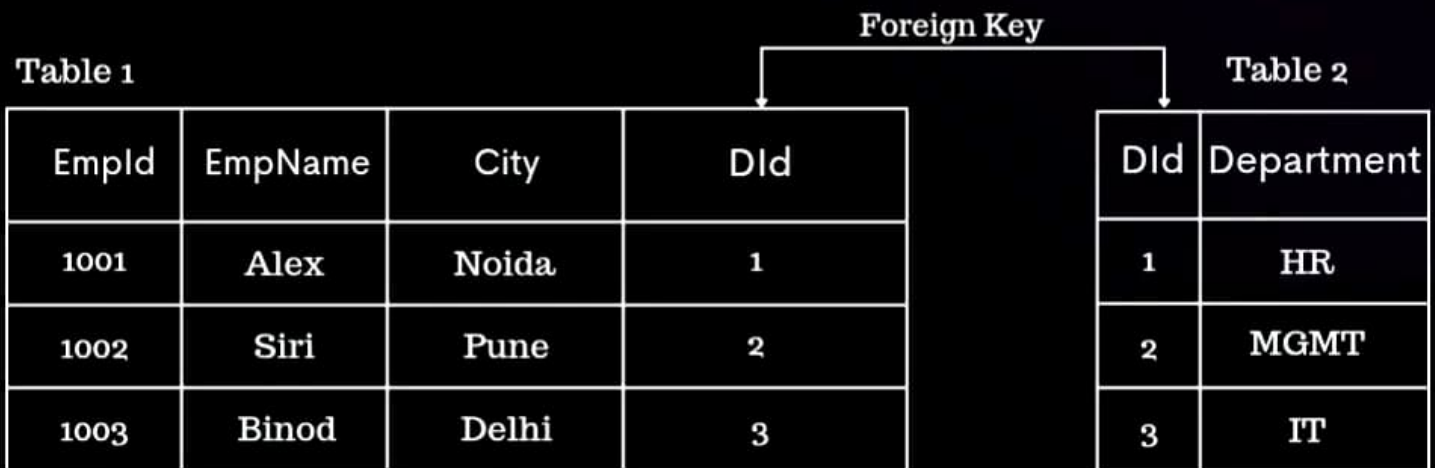
Any key such as super, primary, or candidate key can be called a composite key if it has more than one attribute.

EmpId	EmpName	City	EmpPassPort
1001	Alex	Noida	In007
1002	Siri	Pune	Pk786
1003	Binod	Delhi	Pk142

Composite Key (EmpName + City)

5. Foreign Key:

A foreign key is a key used to link two tables together. It is sometimes also called as referencing key.



DId (Department ID) is used to join two tables.