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Difference between a primary key and a surrogate key

What is the difference between a primary key and a surrogate key?



Rudy Limeback r937.com What is the difference between a primary key and a surrogate key?

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A **primary key** is a special constraint on a column or set of columns. A primary key constraint ensures that the column(s) so designated have no NULL values, and that every value is unique. Physically, a primary key is implemented by the database system using a unique index, and all the columns in the primary key must have been declared NOT NULL. A table may have only one primary key, but it may be composite (consist of more than one column).

A **surrogate key** is any column or set of columns that can be declared as the primary key *instead of* a "real" or **natural key**. Sometimes there can be several natural keys that could be declared as the primary key, and these are all called **candidate keys**. So a surrogate is a candidate key. A table could actually have more than one surrogate key, although this would be unusual. The most common type of surrogate key is an incrementing integer, such as an auto_increment column in MySQL, or a sequence in Oracle, or an identity column in SQL Server.

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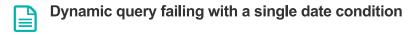








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