

KEY Constraint



EMP

Id	First_name	Last_name	Email	Designation
10032	Jerry	Davis	jerry@abc.com	Manager
97801	Tom	Williams	tom@abc.com	Associate
55463	Phil	Jones	phil@abc.com	Analyst
66475	Phil	Jones	phil.jones@abc.com	Analyst
76546	Tom	Hanks	tom@abc.com	Manager

Key is either a single column or a group of columns that can uniquely identify records in a table.

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Key is either a single column or a group of columns that can uniquely identify records in a table.

{ Id }

{ Id, First_name }

{ Id, Email }

{ Id, First_name, Email }

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Super keys uniquely identify records in a table but they can contain unnecessary columns.

- { Id }
- { Id, First_name }
- { Id, Email }
- { Id, First_name, Email }

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{ Id, First_name }

{ Id, Email }

{ Id, First_name, Email }

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{ Id, First_name }

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{ Id, First_name, Email }

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Candidate keys are subset of Super keys and can uniquely identify records in a table.

{ Id }

{ Id, First_name }

{ Id, Email }

{ Id, First_name, Email }

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{ Id, First_name }

{ Id, Email }

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{ Id }

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Primary key is the Candidate key chosen by database designed to uniquely identify records in a table.

{ Id }

{ Email, Designation }

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PRIMARY KEY

Primary key is the Candidate key chosen by database designed to uniquely identify records in a table.

{ Id }

{ Email, Designation }

UNIQUE

NOT NULL

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Secondary key is a Candidate key not chosen to be a Primary key.

{ Id }

{ Email, Designation }

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Composite key is a key with more than one column.

{ Id }

{ Email, Designation }

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COMPOSITE KEY

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{ Id }

{ Email, Designation }

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Super Key

- Attribute/set of attributes that can uniquely identify records in a table.

Candidate Key

- Subset of Super key without unnecessary attributes.

Primary Key

- Candidate key chosen by database designer to uniquely identify records.

Secondary Key

- Candidate keys that aren't chosen as Primary key.

Composite Key

- Candidate key consisting of multiple attributes.

Thank You!



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Super key

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Super Key

{ Id }, { Email }, { Id, First_name }

Super Key

{ Id }, { Email }, { Id, First_name }

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Super Key

{ Id }, { Email }, { Id, First_name }, { Id, First_name, Last_name }

Candidate Key

{ Id }, { Email, Designation }

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Primary key

Unique

Not Null

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Super Key

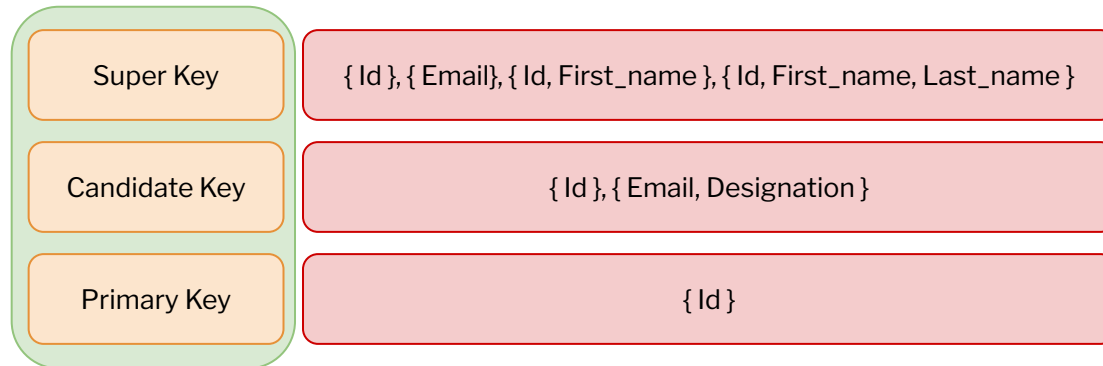
{ Id }, { Email }, { Id, First_name }, { Id, First_name, Last_name }

Candidate Key

{ Id }, { Email, Designation }

Primary Key

{ Id }



Secondary key

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