**Constraint Type:** Not Null

**Definition:** In a column with a Not Null constraint, no data can be missing or blank.

**Described using an analogy in simple but not brief terms:**  Not Null is like a mailing address. When it comes to sending a letter, the post office could care less what’s on the piece of paper. If, however, you add a mailing address, It can’t get sent.

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**Constraint Type: Default**

**Definition:** A value would automatically be set to the default if the associated column isn’t changed

**Described using an analogy in simple but not brief terms:** In math, log has a default value of 10. Though the base can be any value between infinity and negative infinity except 0, it is a common practice to assume the base if 10 if log’s base isn’t written outright.

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**Constraint Type: Check**

**Definition:** A logic statement that prevents a query from taking a specific action if the Check statement is false.

**Described using an analogy in simple but not brief terms:** An online service may ask you to sign-up to it. You enter all the required information but then your sign-up request gets denied due to your age being under 18.

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**Constraint Type: Unique**

**Definition:** A statement that constrains a table’s column from recording data that’s already inside said column.

**Described using an analogy in simple but not brief terms:** Your boss is asking for ideas in a meeting. When someone suggests an idea, they, and everyone else can’t suggest that idea since it would be counterproductive.

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**Constraint Type: Primary Key**

**Definition:** A unique and constant value of a row that identifies the row

**Described using an analogy in simple but not brief terms:** A student has a first name, last name, and their academic information stored within a computer. Though the student may have someone else in their class with the same first name and last name, they would still have their student id to represent them. A primary key would be the student’s id.

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**Constraint Type: Foreign Key**

**Definition:** A constant value of a row that identifies a value in another table.

**Described using an analogy in simple but not brief terms:** A student’s school has a unique identity. The student will be associated with the school making the school the student’s foreign key.