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-- Referential Integrity (RI) - DBMS Enforcement of the Parent-Dependent relationship
                           ie. DBMS Ensure that every foreign key value has a matching primary key
-- A Primary Key specified for a table makes it a potential parent table in an RI relationship
                it's not a parent until a foreign key matches to it (it has a dependent)
-- A Foreign Key specified for a table makes it a dependent in an RI relationship
           the Customer table is a dependent of the User table
           uid column in Customer is a Foreign Key to the Primary Key of the code column in User
           the database manager will ensure every value in the uid column of Customer
                                has matching value in uid column of User
-- Referential Intergrity (Parent/Dependent relationship) limits what INSERT, UPDATE and DELETE can do
       RI adds constraints to INSERT, UPDATE, DELETE)
-- INSERT - parent table - always allowed
           dependent table - allowed only if the foreign already has a matching primary key in the parent
           we can always INSERT a row to the User table
           we can only INSERT a row into the Customer table if it's uid matches a uid in User
-- UPDATE - parent - a Primary Key cannot be updated if it has existing dependents (at least one Foreign Key matches it)
                    UNLESS the update CASCADE option is specified for the parent table
                           which means the Primary Key value can change and all matching Foreign Key values will also change
           dependent - a Foreign Key may only be changed to an existing Primary Key value
-- DELETE - parent - a parent row cannot be deleted if it's Primary Key has matching Foreign Keys
                    UNLESS the DELETE SET NULL option is specified for the parent table
                           which means all Foreign Keys matching the Primary will be set to NULL
                           the null value in the Foreign Key must be changed to match an existing Primary Key
                                          before you can do anything with the dependent table
                            for DELETE SET NULL to be valid, the Foreign Key cannot be defined a UNIQUE or NOT NULL
                                               it also cannot be part of the Primary Key of the dependent table
                    OR the DELETE CASCADE option is specified for the parent table
                           which means a delete of a parent rows also deletes all dependent rows (DANGEROUS!)
   TLDR: If tables have Primary Keys and Foreign Keys you may not be able to do certain INSERT, UPDATE, DELETE operations
   UNIQUE - Column value must be unique with the table
   PRIMARY KEY - Column is part of the unique identifier for a row in the table
                 UNIQUE and NOT NULL are implied
   FOREIGN KEY - Column is part of a foreign key for the table.
                 Value must have a matching value in the primary key of the parent table
                 Establishes the parent-dependent relationship
   CHECK - Specifies acceptable values for a column - any simple WHERE predicate is allowed
   DEFAULT - Specify a default value for column if no value is supplied on INSERT
-- Unit Of Work (UOW) - A recoverable sequence of operations within an application process
-- START TRANSACTION - Mark the start of a unit of work
-- COMMIT - End a unit of work and save changes - automatically done if no errors
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-- ROLLBACK - End a unit of work and undo changes - automatically done if errors