Primary Key Constraint VS. UNIQUE + NOT NULL Constraint

- Primary Key Constraint
 - Uniquely identifies each row in a table.
 - Automatically includes both:
 - o UNIQUE
 - o NOT NULL
 - A table can have **only one primary key**.
 - Can be single-column or multi-column (composite).

❖ UNIQUE + NOT NULL Constraint

- UNIQUE ensures all values in the column are **distinct**.
- NOT NULL ensures the column cannot have NULLs.
- Together, they behave like a primary key, but:
 - o You can define multiple UNIQUE constraints in a table.
 - o It **does not imply "main identity"** of the row.

Key Differences Table:

Feature	Primary Key	UNIQUE + NOT NULL
Uniqueness	✓ Yes	✓ Yes
Allows NULL	X No	X No (due to NOT NULL manually)
How many per table	Only 1	✓ Many
Default for identification	✓ Yes	X No
Name by default	Usually PK_	Usually UQ <column></column>

6 Summary:

Constraint	Is Unique?	Is Not Null?	Multiple per table?	Used for main ID?
PRIMARY KEY	✓	✓	X Only 1	✓ Yes
UNIQUE + NOT NULL	✓	✓	✓ Multiple allowed	X No