//Tüm düğümleri ve ilişkilerini silmek için

MATCH (n) DETACH DELETE n;


// Mevcut kısıtlamalar varsa kaldırmak için

DROP CONSTRAINT Ingredient_id IF EXISTS;

DROP CONSTRAINT Flavor_id IF EXISTS;

DROP CONSTRAINT Technique_id IF EXISTS;

DROP CONSTRAINT Recipe_id IF EXISTS;


// -------- YENİ KISITLAMALARI OLUŞTURMA KISMI --------

// Her node tipi için unique id kısıtlaması

CREATE CONSTRAINT Ingredient_id IF NOT EXISTS

FOR (x:Ingredient)

REQUIRE x.id IS UNIQUE;


CREATE CONSTRAINT Flavor_id IF NOT EXISTS

FOR (x:Flavor)

REQUIRE x.id IS UNIQUE;


CREATE CONSTRAINT Technique_id IF NOT EXISTS

FOR (x:Technique)

REQUIRE x.id IS UNIQUE;


CREATE CONSTRAINT Recipe_id IF NOT EXISTS

FOR (x:Recipe)

REQUIRE x.id IS UNIQUE;


// -------- NODE'LARI YÜKLEME KISMI --------


// Malzemeleri Yükleme

```cypher
LOAD CSV WITH HEADERS

FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-
model/refs/heads/main/csvFiles/ingredients.csv' AS row

MERGE (i:Ingredient {id: row.id})

SET

  i.name = row.name,

  i.category = row.category;


// Lezzetleri Yükleme

LOAD CSV WITH HEADERS

FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-
model/refs/heads/main/csvFiles/flavors.csv' AS row

MERGE (f:Flavor {id: row.id})

SET

  f.name = row.name;


// Teknikleri Yükleme

LOAD CSV WITH HEADERS

FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-
model/refs/heads/main/csvFiles/techniques.csv' AS row

MERGE (t:Technique {id: row.id})

SET

  t.name = row.name;


// Tarifleri Yükleme

LOAD CSV WITH HEADERS

FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-
model/refs/heads/main/csvFiles/recipes.csv' AS row

MERGE (r:Recipe {id: row.id})

SET

  r.name = row.name,

  r.difficulty = row.difficulty,
```

```
    r.time_minutes = toFloat(row.time_minutes);
```

// -------- İLİŞKİLERİ YÜKLEME KISMI--------

// CONTAINS İlişkilerini Yüklemek için (Recipe -> Ingredient)

LOAD CSV WITH HEADERS

FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-model/refs/heads/main/csvFiles/contains.csv' AS row

MATCH (recipe:Recipe {id: row.start_node})

MATCH (ingredient:Ingredient {id: row.end_node})

MERGE (recipe)-[:CONTAINS]->(ingredient);

// HAS_FLAVOR İlişkilerini Yüklemek için (Recipe -> Flavor)

LOAD CSV WITH HEADERS

FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-model/refs/heads/main/csvFiles/has_flavor.csv' AS row

MATCH (recipe:Recipe {id: row.start_node})

MATCH (flavor:Flavor {id: row.end_node})

MERGE (recipe)-[:HAS_FLAVOR]->(flavor);

// USES_TECHNIQUE İlişkilerini Yüklemek için (Recipe -> Technique)

LOAD CSV WITH HEADERS

FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-model/refs/heads/main/csvFiles/uses_technique.csv' AS row

MATCH (recipe:Recipe {id: row.start_node})

MATCH (technique:Technique {id: row.end_node})

MERGE (recipe)-[:USES_TECHNIQUE]->(technique);

// CAN_REPLACE İlişkilerini Yüklemek için (Ingredient -> Ingredient)

LOAD CSV WITH HEADERS

```
FROM 'https://raw.githubusercontent.com/Buse-ng/neo4j-build-
model/refs/heads/main/csvFiles/can_replace.csv' AS row

MATCH (ingredient1:Ingredient {id: row.start_node})

MATCH (ingredient2:Ingredient {id: row.end_node})

MERGE (ingredient1)-[:CAN_REPLACE]->(ingredient2);


// ------ LABELS KISMI ------
// Tatlı lezzetine sahip tariflere "SweetDish" etiketi ekledim

MATCH (r:Recipe)-[:HAS_FLAVOR]->(f:Flavor {name: "Tatlı"})

WITH DISTINCT r SET r:SweetDish;


// Kremamsı lezzetine sahip tariflere "CreamyDish" etiketi ekledim

MATCH (r:Recipe)-[:HAS_FLAVOR]->(f:Flavor {name: "Kremamsı"})

WITH DISTINCT r SET r:CreamyDish;


// Başka bir malzemenin yerine kullanılabilen malzemelere "Substitute" etiketi ekledim

MATCH (i:Ingredient)-[:CAN_REPLACE]->()

WITH DISTINCT i SET i:Substitute;
```