

A. Crear categorías (20) y tags (150)

```
// 20 categorías tipo Pinterest
WITH [
  'Art', 'Design', 'Technology', 'Food', 'Travel', 'Fitness', 'Fashion', 'DIY',
  'Photography', 'Education', 'Gaming', 'Music', 'Movies', 'Quotes', 'Home Decor',
  'Nature', 'Business', 'Sports', 'Memes'
] AS categories
UNWIND range(0, size(categories)-1) AS i
CREATE (:Category {
  id_category: 'CAT-' + toString(i+1),
  name: categories[i]
});

// 150 tags variados (se mezclan palabras reales + sufijo para que no choquen)
WITH [
  'travel', 'food', 'design', 'tech', 'art', 'fitness', 'music', 'gaming', 'coding', 'nature',
  'pets', 'fashion', 'quotes', 'diy', 'coffee', 'books', 'photography', 'cars', 'sports', 'movies',
  'series', 'anime', 'cyberpunk', 'rpg', 'open world', 'scifi', 'romance', 'streetwear',
  'architecture', 'data science', 'ai', 'ml', 'python', 'javascript', 'cooking', 'mexico',
  'japan', 'europe', 'usa', 'beach', 'mountains', 'city', 'startup', 'productivity', 'study',
  'selfcare', 'motivation', 'memes', 'cats', 'dogs', 'luxury', 'minimalism', 'colorful',
  'black&white', 'abstract', 'landscape', 'portrait', 'interior', 'exterior', '3d', 'flat'
] AS baseTags
UNWIND range(1,150) AS i
WITH i, baseTags[toInteger(rand()*size(baseTags))] AS base
CREATE (:Tag {name: base + '_' + toString(i)});
```

B. Crear usuarios, boards, pins y comentarios

```
// 300 usuarios
UNWIND range(1,300) AS i
CREATE (:User {
  id_user: 'USER-' + toString(i),
  name: 'Usuario ' + toString(i),
  profile_picture: 'https://api.dicebear.com/7.x/avataaars/svg?seed=' + toString(i)
});

// 200 boards
UNWIND range(1,200) AS i
CREATE (:Board {
  id_board: 'BOARD-' + toString(i),
  title: 'Board ' + toString(i),
```

```

description: 'Colección de pins ' + toString(i),
created_at: datetime() - duration({days: toInteger(rand()*365)})
});

```

```

// 600 pins
UNWIND range(1,600) AS i
CREATE (:Pin {
  id_pin: 'PIN-' + toString(i),
  title: 'Pin ' + toString(i),
  description: 'Descripción del pin ' + toString(i),
  url_image: 'https://example.com/pin' + toString(i) + '.jpg',
  created_at: datetime() - duration({days: toInteger(rand()*365)})
});

```

```

// 300 comentarios
UNWIND range(1,300) AS i
CREATE (:Comment {
  id_comment: 'CMT-' + toString(i),
  text: 'Comentario ' + toString(i),
  created_at: datetime() - duration({days: toInteger(rand()*365)})
});

```

C. Crear relaciones del modelo Pinterest

1. Usuarios creadores de boards y pins

```

// Cada board tiene 1 creador
MATCH (u:User)
WITH collect(u) AS users
MATCH (b:Board)
WITH b, users[toInteger(rand()*(size(users)-1))] AS creator
MERGE (creator)-[:CREATES]->(b);

```

```

// Cada pin tiene 1 creador
MATCH (u:User)
WITH collect(u) AS users
MATCH (p:Pin)
WITH p, users[toInteger(rand()*(size(users)-1))] AS creator
MERGE (creator)-[:CREATES]->(p);

```

2. Categoría de cada board

```

MATCH (c:Category)
WITH collect(c) AS cats

```

```
MATCH (b:Board)
WITH b, cats[tolInteger(rand()*(size(cats)-1))] AS cat
MERGE (b)-[:IN_CATEGORY]->(cat);
```

3. Pins dentro de boards

```
MATCH (b:Board)
WITH collect(b) AS boards
MATCH (p:Pin)
WITH p, boards[tolInteger(rand()*(size(boards)-1))] AS board
MERGE (board)-[:CONTAINS]->(p);
```

4. Tags de cada pin (2–4 tags por pin)

```
MATCH (t:Tag)
WITH collect(t) AS tags
MATCH (p:Pin)
WITH p, tags, tolInteger(2 + rand()*3) AS numTags // 2 a 4 tags
UNWIND range(1, numTags) AS i
WITH p, tags[tolInteger(rand()*(size(tags)-1))] AS tag
MERGE (p)-[:HAS_TAG]->(tag);
```

5. Likes de usuarios a pins (5–15 likes por pin)

```
MATCH (u:User)
WITH collect(u) AS users
MATCH (p:Pin)
WITH p, users, tolInteger(5 + rand()*10) AS numLikes // 5 a 15 likes
UNWIND range(1, numLikes) AS i
WITH p, users[tolInteger(rand()*(size(users)-1))] AS u
MERGE (u)-[:LIKES {
  date: datetime() - duration({days: tolInteger(rand()*30)})
}]->(p);
```

6. Follows entre usuarios (5–15 follows por usuario)

```
MATCH (u:User)
WITH collect(u) AS users
UNWIND users AS u1
WITH u1, users, tolInteger(5 + rand()*10) AS numFollows
UNWIND range(1, numFollows) AS i
WITH u1, users[tolInteger(rand()*(size(users)-1))] AS u2
WHERE u1 <> u2
MERGE (u1)-[:FOLLOWS {
```

```
since: datetime() - duration({days: toInteger(rand()*365)})
}]->(u2);
```

7. Comentarios (WROTE y ON)

```
MATCH (u:User)
WITH collect(u) AS users
MATCH (p:Pin)
WITH users, collect(p) AS pins
MATCH (c:Comment)
WITH c,
    users[toInteger(rand()*(size(users)-1))] AS u,
    pins[toInteger(rand()*(size(pins)-1))] AS p
MERGE (u)-[:WROTE]->(c)
MERGE (c)-[:ON]->(p);
```

D. Verificar que ya superaste el mínimo

```
// Número total de nodos
MATCH (n)
RETURN count(n) AS totalNodos;

// Número total de relaciones
MATCH ()-[r]->()
RETURN count(r) AS totalRelaciones;
```

E. Actualizar los pines que ya existen con URL de imagen real

```
// Actualizar TODOS los pins existentes para que tengan imagen real (Picsum)
MATCH (p:Pin)
SET p.url_image = 'https://picsum.photos/seed/' + p.id_pin + '/400/300';
```