Method 1: Basic Deletion

```cypher
MATCH (u:User)
WHERE u.id > 10
DETACH DELETE u
```

- `DETACH DELETE` removes the node **and all its relationships** (avoids orphaned relationships)

Method 2: Batch Deletion (For Large Datasets)

```cypher
MATCH (u:User)
WHERE u.id > 10
CALL {
  WITH u
  DETACH DELETE u
} IN TRANSACTIONS OF 1000 ROWS
```

- Processes deletions in batches (prevents memory overload)

Method 3: Using Parameters (Dynamic Threshold)

```cypher
:param minId => 10;
MATCH (u:User)
WHERE u.id > $minId
DETACH DELETE u
```

Method 4: Delete Only If No Relationships Exist

```cypher
MATCH (u:User)
WHERE u.id > 10 AND NOT (u)--()
DELETE u
```

Verification After Deletion

```cypher
```

```
MATCH (u:User)
WHERE u.id > 10
RETURN count(u) AS remainingUsers
```

(Should return `0` if deletion was successful)

Common Issues & Fixes

1. **"Cannot delete node with relationships"** → Use `DETACH DELETE` instead of `DELETE`

2. **Timeout errors** → Use batch deletion (`IN TRANSACTIONS`)

3. **Case sensitivity** → Ensure property name matches (`id` vs `ID`)