# PostgreSQL Logical Replication: Publisher vs Subscriber Responsibilities

### 12 Tasks to Run ONLY on PUBLISHER

What

Triggers Only publisher executes triggers.

Subscriber only copies data changes.

Functions / Procedures Business logic stays on publisher.

Subscriber doesn't run them.

Sequences (auto increment ids)

Keep sequences on publisher to avoid

duplication. Subscriber uses copied data

only.

DML (Insert / Update / Delete) Application writes happen only on

publisher. Subscriber just receives changes.

Roles / Privileges for application users Application connects to publisher.

Subscriber is not used for writes.

#### 22 Tasks to Run ONLY on SUBSCRIBER

What Why

Create Subscription Subscription connects subscriber to

publisher and receives data.

Set Roles / Privileges for Monitoring

(Optional)

If monitoring tools access subscriber, grant

read permissions.

Read Queries for Reporting (Optional) Can run reports or BI tools on subscriber

safely.

## 32 Tasks You MUST Run on BOTH (Publisher and Subscriber)

What Why

Create Tables Logical replication does not replicate

schema. Same tables needed on both.

Primary Keys Required on both for replication to work.

Indexes Improves performance on subscriber for

queries.

Extensions (uuid-ossp, pgcrypto, etc.) Same extensions needed to avoid errors.

Views / Materialized Views Not replicated. Must create manually.

Users / Roles (optional) If monitoring tools or reporting users need

access to both.

### 42 Tasks You DO NOT Run on Subscriber

What Why

Application DML (Insert / Update / Delete) Writes happen only on Publisher.

Subscriber is read-only.

Triggers Subscriber will not run triggers — by

design.

Functions called by app

Application connects to Publisher for logic,

not Subscriber.

Sequence Updates Subscriber receives data; sequence not

needed here.

# **Summary Table**

Activity Publisher Subscriber

Data Changes Yes No (receives only)

(Insert/Update/Delete)

Triggers Yes No

Functions Yes No

Sequences Yes No

Create Tables Yes Yes

Primary Keys Yes Yes

Indexes Yes Optional

Extensions Yes Yes

Views / Materialized Views Yes Yes

Users / Roles Yes Optional

Create Subscription No Yes