

Synchronizing Tenant Databases with the Base Database

To update certain table contents in tenant databases (all businesses) based on the base database, follow the steps outlined below:

Step 1: Add Triggers for Synchronization

1. Identify Tables for Synchronization

- Determine which tables in the base database need to have their content synchronized with the tenant databases.
- Add triggers to these tables in the base database to monitor changes.

2. Modify Trigger and Table Names

- Update trigger names to reflect the table they belong to. For example:
 - Rename `after_category_delete` to `after_settings_delete` for the settings table.
- Replace table names in the SQL statements accordingly. For example:
 - Replace categories with settings if synchronizing the settings table.

3. Create Triggers Use the following template to create triggers on the base database. Replace categories with the target table name:

```

CREATE TRIGGER `after_category_delete` AFTER DELETE ON `categories`
FOR EACH ROW BEGIN
    INSERT INTO base_change_log (table_name, row_id, change_type)
    VALUES ('categories', OLD.id, 'delete');
END

CREATE TRIGGER `after_category_insert` AFTER INSERT ON `categories`
FOR EACH ROW BEGIN
    INSERT INTO base_change_log (table_name, row_id, change_type)
    VALUES ('categories', NEW.id, 'create');
END

CREATE TRIGGER `after_category_update` AFTER UPDATE ON `categories`
FOR EACH ROW BEGIN
    INSERT INTO base_change_log (table_name, row_id, change_type)
    VALUES ('categories', NEW.id, 'update');
END

```

Update the trigger names and table references as required for other tables.

Step 2: Monitor Changes

- Once the triggers are added to the base database:
 - Any **inserts**, **updates**, or **deletes** on the monitored tables will be recorded in the base_change_log table.
 - The log entries will include:
 - table_name: The name of the table where the change occurred.
 - row_id: The primary key of the affected row.
 - change_type: The type of change (create, update, or delete).

Step 3: Update Tenant Databases

- It is scheduled to runs every **5 minutes** to:
 - Read the base_change_log table.
 - Apply the logged changes to the corresponding tables in each tenant database.