Sqlbird - Keeping PostgreSQL database tables replicated in SQLite using Tcl

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Example Superbird Speedtable Query

superbird search boards
   -compare [list [list = reg $ident] [list active true]]
   -fields {ident reg orig dest departuretime}
   -sort filed_departuretime
   -array row
   -code {
      parray row
   }
CREATE OR REPLACE FUNCTION onupdate_changed()
RETURNS trigger AS $$
BEGIN
    NEW.changed := (current_timestamp at time zone 'UTC');
    RETURN NEW;
END;
$$ LANGUAGE plpgsql;

CREATE TRIGGER mytable_update BEFORE UPDATE ON
mytable FOR EACH ROW EXECUTE PROCEDURE
onupdate_changed();
Exemplar Replication Set Definition

sqlbird::define_repset web \
  -schema web \
  -consoleport 1282 \
  -dbfile /var/db/sqlbird/web.db \
  -tables {
    10s {flightaware_config users user_roles user_permissions}
    5m {airlines metars tafs}
    4h {aircraft idents faa_master all_airports aircraft_registryJoined}
  }
Exemplar SQL select that works with both Postgres and SQLite

```sql
sqlbird::select "SELECT a.icao, coalesce(shortname, name) as name, callsign, location, url, phone, iata, airline, major, cargo, coalesce(count, 0) as count, show_tail FROM bd_airline a LEFT JOIN bd_airline_count c on a.icao = c.icao WHERE enabled IS TRUE AND deleted IS NULL and a.icao is not null" i {
    parray row
}
```