



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
  }
```



SQL function to keep a “changed” column updated

```
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_registry_joined}  
  }
```



Exemplar SQL select that works with both Postgres and SQLite

```
sqlbird::select "SELECT
a.icao,coalesce(shortname,name) as
name,callsign,location,url,phone,iata,airline,major,ca
rgo,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
}
```



Questions

