PostgreSQL Finding Unused Indexes

Finding unused indexes in a PostgreSQL instance can be interesting. The following are several queries from various sources to do just that. The information is in the pg_stat_user_index view, and the difference in the queries is in the presentation. The SQL and its source are listed below.

```
SELECT relname , indexrelname , idx_scan , idx_tup_read , idx_tup_fetch
FROM pg_stat_user_indexes
```

https://medium.com/@anasanjaria/how-to-determine-unused-index-in-postgresql-6af846686a3

```
SELECT s.schemaname,
       s.relname AS tablename,
       s.indexrelname AS indexname,
       pg_relation_size(s.indexrelid) AS index_size
FROM pg_catalog.pg_stat_user_indexes s
   JOIN pg_catalog.pg_index i ON s.indexrelid = i.indexrelid
WHERE s.idx_scan = 0      -- has never been scanned
  AND 0 <>ALL (i.indkey)  -- no index column is an expression
  AND NOT i.indisunique   -- is not a UNIQUE index
  AND NOT EXISTS          -- does not enforce a constraint
         (SELECT 1 FROM pg_catalog.pg_constraint c
          WHERE c.conindid = s.indexrelid)
  AND NOT EXISTS          -- is not an index partition
         (SELECT 1 FROM pg_catalog.pg_inherits AS inh
          WHERE inh.inhrelid = s.indexrelid)
ORDER BY pg_relation_size(s.indexrelid) DESC;
```

https://www.cybertec-postgresql.com/en/get-rid-of-your-unused-indexes/

```
SELECT PSUI.indexrelid::regclass AS IndexName ,PSUI.relid::regclass AS
TableName FROM pg_stat_user_indexes AS PSUI JOIN pg_index AS PI ON
PSUI.IndexRelid = PI.IndexRelid WHERE PSUI.idx_scan = 0 AND PI.indisunique
IS FALSE;
```

https://dba.stackexchange.com/questions/137255/find-unused-indexes

```
SELECT
    relid::regclass AS table,
```

```
    indexrelid::regclass AS index,
    pg_size_pretty(pg_relation_size(indexrelid::regclass)) AS
index_size,
    idx_tup_read,
    idx_tup_fetch,
    idx_scan
FROM
    pg_stat_user_indexes
    JOIN pg_index USING (indexrelid)
WHERE
    idx_scan = 0
    AND indisunique IS FALSE
```

https://jmorano.moretrix.com/2014/02/postgresql-monitor-unused-indexes/