

## PostgreSQL - Dumping Data

### Windows

```
cd "\Program Files\PostgreSQL\9.3\bin"  
pg_dumpall -Upostgres > data.bu
```

### Linux

```
su - postgres  
pg_dumpall > data.bu  
zip data.zip data.bu  
exit
```

The above will save the data in the folder /var/lib/pgsql

## PostgreSQL - Restoring Data

Since you are restoring the whole database you will need to delete the database completely. So please remember to do a back up before you do so. Also, **you must stop tomcat.**

### Windows

```
cd "\Program Files\PostgreSQL\9.3\bin"  
psql -Upostgres  
drop database da;  
\q  
unzip data.zip  
psql -Upostgres < data.bu
```

### Linux

```
su - postgres  
psql  
drop database da;  
\q  
psql < data.bu  
exit
```

## Important Maintenance Statements

```
-- Show Running Queries

SELECT pid, age(query_start, clock_timestamp()), username, query
FROM pg_stat_activity
WHERE query != '<IDLE>' AND query NOT ILIKE '%pg_stat_activity%'
ORDER BY query_start desc;

-- kill running query
SELECT pg_cancel_backend(procpid);

-- kill idle query
SELECT pg_terminate_backend(procpid);

-- vacuum command
VACUUM (VERBOSE, ANALYZE);

-- all database users
select * from pg_stat_activity where current_query not like '<%>';

-- all databases and their sizes
select * from pg_user;

-- all tables and their size, with/without indexes
select datname, pg_size_pretty(pg_database_size(datname))
from pg_database
order by pg_database_size(datname) desc;

-- cache hit rates (should not be less than 0.99)
SELECT sum(heap_blks_read) as heap_read, sum(heap_blks_hit) as heap_hit,
(sum(heap_blks_hit) - sum(heap_blks_read)) / sum(heap_blks_hit) as ratio
FROM pg_statio_user_tables;

-- table index usage rates (should not be less than 0.99)
SELECT relname, 100 * idx_scan / (seq_scan + idx_scan)
percent_of_times_index_used, n_live_tup rows_in_table
FROM pg_stat_user_tables
ORDER BY n_live_tup DESC;

-- how many indexes are in cache
SELECT sum(idx_blks_read) as idx_read, sum(idx_blks_hit) as idx_hit,
(sum(idx_blks_hit) - sum(idx_blks_read)) / sum(idx_blks_hit) as ratio
FROM pg_statio_user_indexes;

-- Dump database on remote host to file
$ pg_dump -U username -h hostname databasename > dump.sql

-- Import dump into existing database
$ psql -d newdb -f dump.sql
```

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