## LINUX - HOW TO USE POSTGRES

Reference: <https://www.digitalocean.com/community/tutorials/how-to-install-and-use-postgresql-on-ubuntu-18-04>

* Select user postgres

sudo -i -u postgres

* Open psql
* Do the database operation in psql
* List command:
  + \? list all the commands
  + \l list databases
  + \conninfo display information about current connection
  + \c [DBNAME] connect to new database, e.g., \c template1
  + \dt list tables
  + Then you can run SQL statements, e.g., SELECT \* FROM my\_table;(Note: a statement must be terminated with semicolon ;)
  + \dS [TABLENAME] to see schema of the table
  + \q quit psql

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## SQL COMMAND ORDER

**SELECT** column\_name(s)

**FROM** table\_name

**WHERE** condition

**GROUP BY** column\_name(s)

**HAVING** condition

**ORDER BY** column\_name(s);

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## CONCAT STRING

## *Concate string in result*

*Use* || *- ex*:

select name || ‘ ‘ || from sometable;

## CASE

## *If-else conditional*

*Usage in select, ex:*

select m.firstname || ' ' || m.surname as member, f.name,

**case**

**when m.memid=0 then**

**f.guestcost**

**else**

**f.membercost**

**end as cost**

from members as m

… ;

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