PostgreSQL CHEATSHEET

COMMON DATA TYPES

varchar (n)	variable-length character string
char (n)	fixed-length character string
bool	logical Boolean (true/false)
bytea	binary data (e.g., image)
date	calendar date (year, month, day)
float	floating-point number
int	integer
serial	autoincrementing integer
time	w/ or w/o timezone
timestamp	w/ or w/o timezone

TABLE FUNCTIONS

```
CREATE TABLE schema.table (
 id              serial PRIMARY KEY,
 name            varchar(50) UNIQUE NOT NULL,
 dateCreated     timestamp DEFAULT
);
```

`ALTER TABLE` *table* ADD PRIMARY KEY (*id*);

`DROP TABLE` *schema.table*;

`INSERT INTO` *schema.table* (SELECT * FROM *schema.table*)

`DELETE FROM` *schema.table* WHERE *condition*

REMEMBER TO CREATE METADATA WHEN CREATING TABLES; just use 2 dashes before comment:
-- insert comment here

http://www.postgresql.org/docs/8.4/

QUERIES and JOINS

`SELECT *` FROM *schema.table*;

SELECT * FROM *schema.table* **LIMIT 10**;

SELECT COUNT(*table*) FROM *schema.table;*

SELECT SUM(*table.col1*) **AS** N_tot
FROM *schema.table*
WHERE (*table.col2* Is Not Null AND N_tot < 100)
GROUP BY *table.col3*;

SELECT DISTINCT(*table.col1*)FROM *schema.table*
GROUP BY (*table col2*);

CREATE TABLE SELECT ....;

INNER JOIN – join on records where values in joined fields are equal - these will be the only records in query result

LEFT JOIN (RIGHT JOIN) – include all the records from the field in the left (or right) table and only those records from the other table where the values are equal

FUNCTION ORDER: SELECT ….FROM…..INNER/RIGHT/LEFT JOIN....ON...WHERE….GROUP BY

MATH, STRING, AGGREGATE FUNCTIONS

AVG (expression)	
STDDEV(expression)	
MIN (expression)	
MAX(expression)	
SUM(expression)	
VARIANCE(expression)	
ABS(value)	
LN(value)	
LOG(value)	
PI()	
POWER(base, exponent)	
ROUND(value [,decimal_places])	
SQRT(value)	
CHAR_LENGTH(string)	
REPLACE(string FROM string, TO string)	

SQL Workbench/J --- import function: `WbImport`; export function: `WbExport`; Copy data across DBs: `WbCopy`; `WbSchemaDiff`; `WbDataDiff`; List - tables: `WbList`; `WbListSchemas`; `WbSelectBlob`
Connection: URL = jdbc:postgresql://fsumysql.ci.neon.local:5432/dodobase; User =fsu; Password = fsurocks