Data type		
tipus		descripció
boolean		y/n, yes/no, 1/0, t/f, true/false
integer, int, int4		enter
smallint, int2		enter de fins a 5 digits (-32000/32000)
bigint, int8		desde (-910^17/910^17)
serial/bigserial		enter autoincremental int/bigint
decimal/numeric(t,d)		t=total digits /d=total decimalsprecisión
float		decimal fins a 6 decimals
double precision		decimal fins a 15 xifres
character varyng(n), varchar(n)		longitud de 'n' caràcters
character(n), char(n)		char de longitud 'n' obligatòria
text, varchar		longitud variable il.limitada
date 'YYYY-MM-DD'		desde 4317A.C. fins 32767D.C.
date 'DD-MM-YYYY'		SET DATETYPE 'European'
time 'hh:mm:ss'		guarda la hora
timestamp 'YYYY-MM-DD hh:mm:ss'		data i hora
timestamptz 'YYYY-MM-DD hh:mm:ss±tz'		data i hora guardael TIME ZONE'
AND WH	WHERE [atr]=[value] AND [atr]=[value];	
OR WH	DR WHERE [atr]=[value] AND IS NOT NULL;	

- Funcions

BETWEEN

IN

IN

STRING FUNCTIONS

char_length([varchar])

WHERE [atr] IN ([value], [value], ...);

WHERE [atr] BETWEEN [x] AND [y];

WHERE [atr] IN (SELECT [atr] FROM [table] WHERE [condición]);

Operadors relacionals

position('[char]' IN [string])

substring([string], n, m) --n:from|m:to

Exemple casting...

"some_string"::int | 867::varchar

MATH/OTHERS FUNCTIONS

SELECT **count**(*) FROM [taula];

SELECT **sum**([atr]) FROM [taula];

SELECT **DISTINCT** [atr] FROM [table];

max/min([atr]) abs([num])

round([float]) trunc([float])

TIME FUNCTIONS

current date -- Data actual YYY-MM-DD

current time --temps hh:mm:ss+tz

current timestamp --currDate+currTime

now() --=current timeatamp

localtime --temps hh:mm:ss

localtimestamp -- currDate + localtime

extract([time field|...] from [timestamp]);

-- Time fields:

century, decade, year, month, day, hour, minute, second,dow(DayOfWeek), doy, epoch, week, ...

AGRUPAR RESULTAT

SELECT count(*) FROM [taula] **GROUP BY** [atr];

-condicions als grups

SELECT count(*) FROM x **GROUP BY** [atr]

HAVING count(*)|[grup atr][condició];

PostgresQL

..:~\$ sudo service postgresql start // if isn't (on debian) ..:~\$ sudo -u postgres psql //accés consola postgres

comparadors operador descripció = / <> equal/not equal < / > less/more than <=/ >= more/less or equal IS/IS NOT _!!!per a NULL!!!_

Comandes bàsiques

\l --Ilista les bd \c [db_name]--connectas a db \d --show taules de db \d [taula] --show table's atr/info \i [path/to/script] --importar script

- COMANDES BD

CREATE DATABASE [name]; --crear nova BD DROP DATABASE [name]; --Elimina DB

- COMANDES BÀSIQUES TAULES

CREATE TABLE [name] ([atr] [type] [modifier],

id serial primary key,

name varchar(30) NOT NULL,

PRIMARY KEY(id),

CONSTRAINT [fk_name] FOREIGN KEY([this_atr])
REFERENCES [foreign_table]([atr])

TRUNCATE TABLE [name]; --buida la taula

INSERT INTO [taula] (atr1, atr2, ...)

VALUES ([value1], [value2], ...);

INSERT INTO [taula] VALUES ([value1], [value2], ...);
INSERT INTO [taula] ([atr_default],...) VALUES (default, ...);

UPDATE [table] SET [atr]=[value] WHERE [atr]=[value];

DELETE FROM [table] WHERE [atr][comp][value];

ACCIONS AMB ALTER-

ALTER TABLE [name] ...

editar taules

...**ADD COLUMN** [nom] [type] ~ [modifier];

...**RENAME COLUMN** [nom from] **TO** [nom to];

...**DROP COLUMN** [atr];

...**ALTER COLUMN** [atr] **SET DEFAULT** [value]:

...**DROP CONSTRAINT** [constr name];

...[SET | DROP] NOT NULL;

...**ADD CONSTRAINT** [nom restricció]

CHECK ([atr][condició]);--restricció del camp

...**ADD CONSTRAINT** [const_name] **UNIOUE** (columns):

editar relacions

...**ADD PRIMARY KEY** ([atr]);

...**DROP CONSTRAINT** [constr name];

...**ADD CONSTRAINT** [contr_name]

FOREIGN KEY ([atr fk])

REFERENCES [taula origen] ([atr origen]);

INDEX :

CREATE [UNIQUE] INDEX [idx_name] ON [taula] ([atr]);
DROP INDEX [name];

VIEWS -

CREATE VIEW [nom] AS SELECT ...;
SELECT * FROM [view];
DROP VIEW [nom];