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# Install postgres and table creation in centos 6

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#### Step 1: Switch as root user

# sudo su

# password:hduser

# Step 2: Update centos linux package list

# yum -y update

# Step 3: Install postgresql using the below command - client packages

# yum -y install postgresql postgresql-contrib

### **Step 4: Install postgressql server packages**

# yum install postgresql-server

## **Step 5: Initalize the postgresql DB**

# service postgresql initdb

# **Step 6: Configure postgres to start when server reboots**

# chkconfig postgresql on

### Step 7: Edit the configuration file to update the server access

# cd /var/lib/pgsql/data/

# vi pg\_hba.conf

host all all 0.0.0.0/0 md5

#### **Step 8: Start postgres service**

# service postgresql start

# Step 9: Switch as postgres, creat retail db, create hduser and grant all access to retail db

# su postgres

create database retail;

create user hduser with encrypted password 'hduser';

grant all privileges on database retail to hduser;

# **Step 10: Quit from postgres command line**

/q

## Step 11: switch as hduser

\$ su hduser

## **Step 12: Get into postgresql retal db and create tables**

\$ psql retail

```
create table customer(custid int, firstname varchar(100), lastname
varchar(100),age int,profession varchar(200));
insert into customer values(400001, 'Kristina', 'Chung', 55, 'Pilot');
insert into customer values(400002, 'Paige', 'Chen', 74, 'Teacher');
insert into customer values(400003, 'Sherri', 'Melton', 34, 'Lawyer');
insert into customer values (400004, 'Gretchen', 'Hill', 66, 'Carpenter');
insert into customer values(400005, 'Karen', 'Puckett', 74, 'Doctor');
create table tutorials (id int, tutorial name varchar(100));
insert into tutorials values(101, 'Hadoop Learning');
insert into tutorials values(102, 'Sqoop Tutorials');
insert into tutorials values(103, 'Hive Workouts');
insert into tutorials values(104, 'Spark Internals');
insert into tutorials values(105, 'Python Tutorials');
CREATE TABLE weather (city varchar(80), temp lo int, temp hi int, prcp
real, date date);
```

```
CREATE TABLE cities (name varchar(80), location point);
INSERT INTO weather VALUES ('San Francisco', 46, 50, 0.25, '1994-11-
27');
INSERT INTO cities VALUES ('San Francisco', '(-194.0, 53.0)');
INSERT INTO weather (city, temp lo, temp hi, prcp, date)
  VALUES ('San Francisco', 43, 57, 0.0, '1994-11-29');
INSERT INTO weather (date, city, temp hi, temp lo)
  VALUES ('1994-11-29', 'Hayward', 54, 37);
To list databases
I
or
SELECT datname FROM pg database;
To list tables
\dt
or
SELECT * FROM pg_catalog.pg_tables WHERE schemaname !=
'pg catalog' AND schemaname != 'information schema';
```

# To see the details of the table \d customer or SELECT COLUMN NAME, data type FROM information schema.COLUMNS WHERE TABLE NAME = 'customer'; To quit \q Import data from postgres to hdfs using sqoop Step 1: Check the hadoop services are running, if not start the services \$ ips Step 2: Download postgres jdbc jar from the below given commands \$ cd ~/Downloads/ \$ wget http://www.java2s.com/Code/JarDownload/postgresql/postgresql-8.4-702.jdbc4.jar.zip Step 3: Extract and copy the jar into the sqoop folder \$ unzip ~/Downloads/postgresql-8.4-702.jdbc4.jar.zip \$ cp ~/Downloads/postgresql-8.4-702.jdbc4.jar /usr/local/sqoop/

# **Step 4: sqoop command to import**

sqoop list-tables --connect jdbc:postgresql://localhost:5432/retail -- username hduser --password hduser

sqoop import --connect jdbc:postgresql://localhost:5432/retail -- username hduser --password hduser --table customer --target-dir postgrescustomer -m 1