Greenplum常用命令、函数

Greenplum常用查询命令

36.将查询结果直接输出到文件,在psql中 \o 文件路径

select datname,rolname from pg_database a left outer join pg_roles b on a.datdba=b.oid; \o

```
#查看test_bd事务(即数据库)下的所有表名包含 user 的 表信息
SELECT UPPER(A.SCHEMANAME) AS SCHEMANAME, UPPER(A.TABLENAME) AS TABLENAME,
D.ATTRELID, D.ATTRELID :: regclass, UPPER(D.ATTNAME) AS ATTNAME,
REPLACE(REPLACE(FORMAT_TYPE(D.ATTTYPID, D.ATTTYPMOD), 'numeric', 'NUMBER'),
'character varying','VARCHAR2'),'date','DATE') AS DATA_TYPE,E.DESCRIPTION
FROM PG TABLES AS A
INNER JOIN PG_CLASS AS B ON A.TABLENAME = B.RELNAME
LEFT JOIN PG_CATALOG.PG_DESCRIPTION AS E ON B.OID = E.OBJOID
LEFT JOIN PG_CATALOG.PG_ATTRIBUTE AS D ON D.ATTRELID = E.OBJOID AND D.ATTNUM = E.OBJSUBID
WHERE SCHEMANAME = 'test bd'
AND A.TABLENAME LIKE '%user%'
AND D.ATTNUM > 0
ORDER BY A .TABLENAME, D.ATTNUM
    select pg_size_pretty(pg_database_size('gp_db'));
                                                        #查看gp数据库大小
    select gp_segment_id,count(*) from db_name.tb_name group by gp_segment_id;
                                                                                  #查看数据分布情况
   1.创建数据库
                   createdb test db;
   2.删除数据库
                   dropdb test db;
   3.创建模式
                   create schema myschema;
   4.删除模式
                   drop schema myschema;
   5.创建用户
                   create user user name with password '123456';
   6.删除用户
                   drop user user_name;
   7.查看系统用户信息
                         select usename from pg_user;
   8.查看版本信息
                         select version();
   9.打开psql交互工具
                         psql name db;
                         mydb=> \i basics.sql \i 命令从指定的文件中读取命令。
   10.执行sql文件
   11.批量将文本文件中内容导入到wether表
                                                    copy weather from '/home/user/weather.txt';
   12.查看搜索模式
                         show search_path;
   13.设置搜索模式
                         set search path to myschema, public;
   14.创建表空间
                         create tablespace spacename to location 'file path';
   15.显示默认表空间
                         show default tablespace;
   16.设置默认表空间
                         set default_tablespace=表空间名称;
   17.指定用户登录
                         psql mtps -u
   18.显示当前系统时间
                          select now();
   19.配置plpgsql语言
                         create language 'plpgsql' handler plpgsql_call_handler;
   20.删除规则
                   drop rule name on relation [ cascade | restrict ];
   21.当前日期属于一年中第几周
                                   select extract(week from timestamp '2020-06-14');
   22.查询表是否存在
                         select * from pg_statio_user_tables where relname='test_tb';
   23.导出表
                          ./pg dump -p 端口号 -u 用户 -t 表名称 -f 备份文件位置 数据库;
   24.整个数据库导出
                         pg_dumpall -d -p 端口号 -h 服务器ip -u postgres(用户名) > /home/xiaop/all.bak
   25.数据库备份恢复
                         psql -h 192.168.0.48 -p 5433 -u postgres
                         pg_dumpall -h 192.168.0.4 -p 5433 -u postgres >/databack/postgresql2020061401.dmp
   26.数据库备份
   27.当前日期函数
                         select current date;
   28.返回第十条开始的5条记录
                                  select * from tbname limit 5 offset 10;
   29. 查看数据厍大小
                         select pg_size_pretty(pg_database_size('mtps')) as fulldbsize;
   30.查看数据库表大小
                         select pg_size_pretty(pg_total_relation_size('test_db.t_l_collectfile')) as
   fulltblsize,pg size pretty(pg relation size('test db.t | collectfile')) as justthetblsize;
   31.设置执行超过指定秒数的sql语句输出到日志
                                                 log min duration statement = 3
   32.超过一定秒数sql自动执行执行计划
                                          shared preload libraries = 'auto explain', custom variable classes =
   'auto explain',auto explain.log min duration = 4s
   33.数据库备份
       select pg_start_backup('backup baseline');
       select pg_stop_backup();
       recovery.conf
       restore command='cp /opt/buxlog/%f %p'
   34.数据字典查看表结构
                            select column_name, data_type from information_schema.columns where table_name = 'test_tb';
   35.查询表结构
                            select a.attnum,a.attname as field,t.typname as type,a.attlen as length,a.atttypmod as lengthvar,a.attnotnull
   as not null from pg_class c,pg_attribute a,pg_type t where c.relname=表名称and a.attnum > 0 and a.attrelid = c.oid and a.atttypid = t.oid
```

37.查询数据库所有则 select datname,rolname from pg_database a left outer join pg_roles b on a.datdba=b.oid; 38.结束正在执行的事务 select * from pg_stat_activity;

39.查看被锁定表

select pg_class.relname as table, pg_database.datname as database, pid, mode, granted from pg_locks, pg_class, pg_database where pg_locks.relation = pg_class.oid and pg_locks.database = pg_database.oid;

40.查看客户端连接情况 select client addr, client port, waiting, query start, current query from pg stat activity; 41.常看数据库.conf配置 show all;

修改数据库postgresql.conf参数

修改postgresql.conf内容 pg_ctl reload

回滚日志强制恢复 pg_resetxlog -f 数据库文件路径

■ Greenplum常用命令与MySQL对比

(1)列出所有的数据库

mysql: show databases

psql: \l或\list (2)切换数据库

> mysql: use dbname psql: \c dbname

(3)列出当前数据库下的数据表

mysql: show tables

psql: \d

(4)列出指定表的所有字段

mysql: show columns from table name

psql: \d tablename

(5)查看指定表的基本情况

mysql: describe tablename

psql: \d+ tablename

(6)退出登录

mysql: quit 或者\q

psql:\q

• Greenplum常用调优命令

netstat -ano|grep 5432 -wc

#查看连接5432端口线程数

psql -d gpdatabase -h master_host -p 5432 -U gpadmin

#连接gpdb_name数据库

psql gpdb_name vacuum table name

#清除数据库碎片

#连接数据库

#查看索引的大小

select pg_size_pretty(pg_relation_size('ind_t_id'));

pg_dump -U gpadmin -Fc test_db > test.dump

pg_restore -d test_db test_db.dump

#导入dump数据

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gp数据导入:

psql -h localhost -p 5432 -d test_db -U gpadmin -c "\copy tablename FROM '/home/user/test.csv' with DELIMITER as ',' NULL as 'null string"

psql -d test_db -h localhost -p dd -c "\copy(select * from ods.ods_dPmytest)to /home/gpadmin/loadout/test_db.csv"

gp数据备份:

gp_dump database_name;

把一个表的所有内容都拷贝到一个文件,COPY只能用于表,不能用于视图。 **COPY TO**

COPY FROM 从一个文件里拷贝数据到一个表里(把数据附加到表中已经存在的内容里)。

COPY user_tb TO '/tmp/data/test.csv' WITH csv;导出表数据

COPY user tb FROM '/tmp/data/test.csv' WITH csv;导入表数据

#使用select命令

COPY (select * from user tb create time > '2019-08-16 00:00:00' and create time < '2019-08-17 00:00:00') TO '/tmp/data/user_20190816.csv' with csv;

Greenplum常用窗口函数

row number() over(partition by XXX order by XXX desc);

-- 生成序列号

max() over(partition by XXX order by XXX);
avg() over(partition by XXX order by XXX);

--取最大值 --取平均值