1   CheatSheet: SQL & MySql   Tools

- PDF Link: cheatsheet-mysql-A4.pdf, Category: tools

- Blog URL: `https://cheatsheet.dennyzhang.com/cheatsheet-mysql-A4`

- Related posts: CheatSheet: shell, #denny-cheatsheets

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1.1   SQL Statement

Name	Problem
SQL problems	#sql
topn entris for each group	Leetcode: Department Top Three Salaries
Rank score	Leetcode: Rank Scores

1.2   Mysql Packages

Name	Command
Install mysql server	`apt-get install mysql-server`
Install mysql client	`apt-get install mysql-client libmysqlclient-dev, yum install mysql-devel`
Install python mysql library	`easy_install mysql-python`

1.3   DB Management

Name	Command
mysql connect	`mysql -u$username -p$password -P$port -h$dbhost $dbname`
database encoding	`set names utf8;`
List databases	`show databases;`
List tables for current db	`show tables;`
Check table definition	`describe $tablename;`
Run sql in non-interactive way	`mysql -uUSER -pPASSWORD databasename -e "select * from t lin`
Import db	`mysql -uUSER -pPASSWORD dbname < backup.sql`
export db	`mysqldump -uUSER -pPASSWORD DATABASE > backup.sql`
export db without schema	`mysqldump -uUSER -pPASSWORD DATABASE --no-data=true --add-dr`
Grant access	`GRANT SUPER ON 'DBNAME'.'user' TO 'DBUSER'@'%'`
Add column	`ALTER TABLE expenses ADD COLUMN createtime timestamp not nul`
Delete Column	`ALTER TABLE expenses DROP COLUMN createtime;`
Delete index	`DROP INDEX indexname ON table_name;`
Create index	`create index idindex on table_name(col_name) using btree;`
Reset password	UPDATE mysql.user SET Password=PASSWORD('MyNewPass') WH
ERROR 1396 (HY000): Operation CREATE USER...	`drop user 'braindenny'@'%'; flush privileges; CREATE USER...`
mysql8 create user with password	`CREATE USER 'myuser'@'%' IDENTIFIED BY 'MYPASSWORD';`
mysql8 grant privileges to user	`GRANT ALL PRIVILEGES ON mydbname.* TO 'myuser'@'%' WITH GRAN`

1.4   SQL Statement

Name	Command
Select with regexp in where clause	`select * from expenses where date regexp '2013-0[4-5]' limit 2;`
Select with like in where clause	`select * from expenses where date like '2013-0%' limit 2;`
Select unix timestamp	`select unix_timestamp(createtime) from expenses limit 1;`
Offset limit	`select * from student limit 4 offset 9`
Use replace function	`UPDATE tb1 SET f1=REPLACE(f1, 'abc', 'def');`
Use if function	select Db, IF(IFNULL(User, "")="", DB, User) from db;

1.5   PSQL/Postgres

Name	Command
Install postgres in Ubuntu	`apt-get install postgresql postgresql-client postgresql-contrib`
Install postgres in Mac OS	`brew install postgres`
Check postgres status	`service postgresql status`
Check version	`psql --version`
Connect postgresql	`psql -U postgres`
Create user	`CREATE USER tom WITH PASSWORD '';`
Grant access	`GRANT ALL PRIVILEGES ON DATABASE launchpad_empty to tom;`
Postgres configuration	`/var/lib/pgsql/data/pg_hba.conf`, `/etc/postgresql/*/main/postgresql.conf`
Promote to super admin	`ALTER USER myuser WITH SUPERUSER;`
List datbases	`\l`
List all tables in a database	`\d`
Change database	`\connect launchpad_dev;`
Show tables	`\ds`
Copy databse	`createdb -O root -T launchpad_dev launchpad_ustack_cn`
Drop database	`drop database launchpad_ustack_cn;`
Connect db	`psql -h myhost -d mydb -U myuser -W`
Create user	`CREATE USER tom WITH PASSWORD 'myPassword';`
Create db	`CREATE DATABASE jerry;`

1.6   More Resources

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