1 CheatSheet: SQL & MySql

LANGUAGES

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- PDF Link: cheatsheet-mysql-A4.pdf, Category: languages
- Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-mysql-A4
- \bullet Related posts: CheatSheet: shell, #denny-cheatsheets

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1.1 SQL Problems

	Name	Problem
-	Use having with group-by	group by class having count(distinct student)>4 Leecode: Class
	Update records with case clause	set sex = case when sex = 'm' then 'f' else 'm' end LeetCode:
	Sum with case	sum(case when state = 'approved' then 1 else 0 end) LeetCode:
	Subquery	where (customer_id, order_date) in (select LeetCode: Imm
	Sql isnull and if	if(s1.id%2=0, s1.student, if(isnull(s2.student), s1.student,
	round float	(round(accepts/requests, 2) Leecode: Friend Requests I: Overall Ac
	Rank score	(select @rank := 0, @prev := -1) as rows LeetCode: Rank Scores
	Select clause add an incremental id	select (@cnt1 := @cnt1 + 1) as id LeetCode: Students Report By Geogr
	$MySQL DATE_{SUB}$	DATE_SUB(record_date, INTERVAL 6 DAY)
	Get accumulated sum for each group	LeetCode: Last Person to Fit in the Elevator
	nth element in each group	LeetCode: Nth Highest Salary
	topn entris for each group	LeetCode: Department Top Three Salaries
	union vs union all	LeetCode: Friend Requests II: Who Has the Most Friends
	Convert float to int	cast(amount as SIGNED)
	If no match show null	LeetCode: Second Highest Salary
	Get maximum of multiple columns	LeetCode: Triangle Judgement
	Tree hierarchy in SQL	LeetCode: All People Report to the Given Manager
	Impressive sql problems	Leecode: Find Median Given Frequency of Numbers, LeetCode: Consec
	Impressive sql problems	LeetCode: Rank Scores, LeetCode: Exchange Seats, LeetCode: Students
	mysql doesn't support full outer join	LeetCode: Monthly Transactions II
	When left join+groupby, group by which tables' field?	LeetCode: Team Scores in Football Tournament
	<pre>sum(if(isnull(vs ifnull(sum(</pre>	LeetCode: Team Scores in Football Tournament
	Three tables' inner join	LeetCode: Students and Examinations
	Find Continuous Ranges	Find the Start and End Number of Continuous Ranges
	Reference	Leetcode SQL problems

1.2 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	<pre>select unix_timestamp(createtime) from expenses limit 1;</pre>
Offset limit	select * from student limit 4 offset 9
Use replace function	<pre>UPDATE tb1 SET f1=REPLACE(f1, 'abc', 'def');</pre>
Use if function	select Db, IF(IFNULL(User, "")="", DB, User) from db;

1.3 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

1.4 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 lir
Import db	mysql -uUSER -pPASSWORD dbname < backup.sql
export db	mysqldump -uUSER -pPASSWORD DATABASE > backup.sql
export db without schema	mysqldump -uUSER -pPASSWORD DATABASEno-data=trueadd-di
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	<pre>create index idindex on table_name(col_name) using btree;</pre>
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

1.5 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	psqlversion
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	\1
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	<pre>drop database launchpad_ustack_cn;</pre>
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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