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
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1.1 SQL Problems

Name	Problem
Use having with group-by	group by class having count(distinct student) Leetcode: Cla
Update records with case clause	set sex = case when sex = 'm' then 'f' else 'm' end Leetcode:
Sum with case	<pre>sum(case when state = 'approved' then 1 else 0 end) Leetcode:</pre>
Rank score	select @rownr:=@rownr+1 as rank Leetcode: Rank Scores
Subquery	where (customer_id, order_date) in (select Leetcode: Imme
Sql isnull and if	<pre>if(s1.id%2=0, s1.student, if(isnull(s2.student), s1.student,</pre>
Use having with group-by	group by class having count(distinct student)>4 Leecode: Class
round float	(round(accepts/requests, 2) Leecode: Friend Requests I: Overall Ac
Select clause add an incremental id	select (@cnt1 := @cnt1 + 1) as id Leetcode: Students Report By Geogra
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
If no match show null	Leetcode: Second Highest Salary
Get maximum of multiple columns	Leetcode: Triangle Judgement
Impressive sql problems	Leecode: Find Median Given Frequency of Numbers, Leetcode: Consecu
Impressive sql problems	Leetcode: Rank Scores, Leetcode: Exchange Seats, Leetcode: Students l
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
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 lin
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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