

CheatSheet: SQL & MySql

LANGUAGES

- PDF Link: [cheatsheet-mysql-A4.pdf](#), Category: languages
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-mysql-A4>
- 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)... Leetcode: Cla
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:
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	if(s1.id%2=0, s1.student, if(isnull(s2.student), s1.student,
Use having with group-by	group by class having count(distinct student)>4 Leetcode: Class
round float	(round(accepts/requests, 2) Leetcode: 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	Leetcode: Find Median Given Frequency of Numbers, Leetcode: Consecu
Impressive sql problems	Leetcode: Rank Scores, Leetcode: Exchange Seats, Leetcode: Students I
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
sum(if(isnull(vs ifnull(sum(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	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;

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

1.5 PSQL/Postgres

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

1.6 More Resources

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