FUNCTIONS

AGGREGATE FUNCTIONS

WINDOW FUNCTIONS

STRING FUNCTIONS

DATE FUNCTIONS

COMPARISON FUNCTIONS

HOME VIEWS TRIGGERS MATH FUNCTIONS

Home / SQL Cheat Sheet

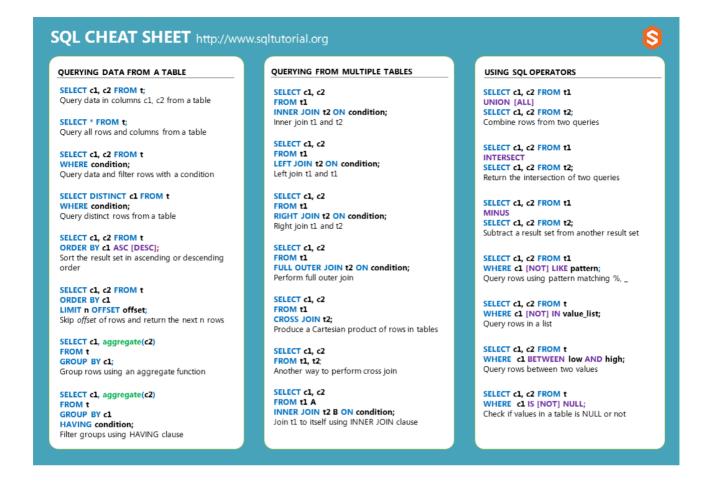
SQL Cheat Sheet

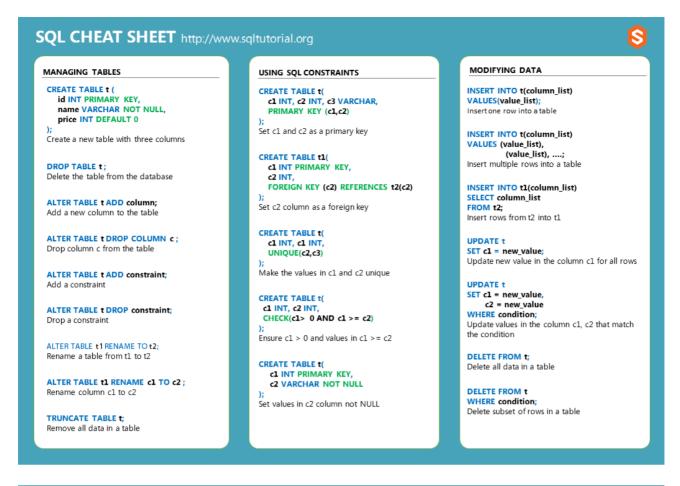
ADVERTISEMENT

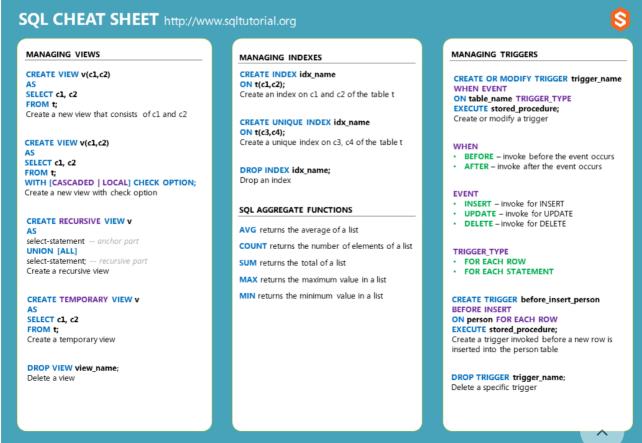
×

The SQL cheat sheet provides you with the most commonly used SQL statements for your reference. You can download the SQL cheat sheet as follows:

Download 3-page SQL cheat sheet in PDF format







Querying data from a table

Query data in columns c1, c2 from a table

Group rows using an aggregate function

```
4
 SELECT c1, c2 FROM t;
Query all rows and columns from a table
                                                                                       2
 SELECT * FROM t;
Query data and filter rows with a condition
                                                                                       2
 SELECT c1, c2 FROM t
 WHERE condition;
Query distinct rows from a table
                                                                                       4
 SELECT DISTINCT c1 FROM t
 WHERE condition;
Sort the result set in ascending or descending order
                                                                                       4
 SELECT c1, c2 FROM t
 ORDER BY c1 ASC [DESC];
Skip offset of rows and return the next n rows
                                                                                       4
 SELECT c1, c2 FROM t
 ORDER BY c1
 LIMIT n OFFSET offset;
```

```
4
 SELECT c1, aggregate(c2)
 FROM t
 GROUP BY c1;
Filter groups using HAVING clause
                                                                                   SELECT c1, aggregate(c2)
 FROM t
 GROUP BY c1
 HAVING condition;
Querying from multiple tables
Inner join t1 and t2
                                                                                   2
 SELECT c1, c2
 FROM t1
 INNER JOIN t2 ON condition;
Left join t1 and t1
                                                                                   4
 SELECT c1, c2
 FROM t1
 LEFT JOIN t2 ON condition;
Right join t1 and t2
                                                                                   4
 SELECT c1, c2
 FROM t1
 RIGHT JOIN t2 ON condition;
Perform full outer join
```

```
4
 SELECT c1, c2
 FROM t1
 FULL OUTER JOIN t2 ON condition;
Produce a Cartesian product of rows in tables
                                                                                    SELECT c1, c2
 FROM t1
 CROSS JOIN t2;
Another way to perform cross join
                                                                                    4
 SELECT c1, c2
 FROM t1, t2;
Join t1 to itself using INNER JOIN clause
                                                                                    4
 SELECT c1, c2
 FROM t1 A
 INNER JOIN t1 B ON condition;
Using SQL Operators
Combine rows from two queries
                                                                                    2
 SELECT c1, c2 FROM t1
 UNION [ALL]
 SELECT c1, c2 FROM t2;
Return the intersection of two queries
                                                                                 ^ 2
 SELECT c1, c2 FROM t1
```

Create a new table with three columns

```
INTERSECT
 SELECT c1, c2 FROM t2;
Subtract a result set from another result set
                                                                                    4
 SELECT c1, c2 FROM t1
 MINUS
 SELECT c1, c2 FROM t2;
Query rows using pattern matching %, _
                                                                                    2
 SELECT c1, c2 FROM t1
 WHERE c1 [NOT] LIKE pattern;
Query rows in a list
                                                                                    2
 SELECT c1, c2 FROM t
 WHERE c1 [NOT] IN value_list;
Query rows between two values
                                                                                    2
 SELECT c1, c2 FROM t
 WHERE c1 BETWEEN low AND high;
Check if values in a table is NULL or not
                                                                                    4
 SELECT c1, c2 FROM t
 WHERE c1 IS [NOT] NULL;
Managing tables
```

```
4
 CREATE TABLE t (
       id INT PRIMARY KEY,
       name VARCHAR NOT NULL,
       price INT DEFAULT 0
 );
Delete the table from the database
                                                                                     4
 DROP TABLE t;
Add a new column to the table
                                                                                     4
 ALTER TABLE t ADD column;
Drop column c from the table
                                                                                     4
 ALTER TABLE t DROP COLUMN c ;
Add a constraint
                                                                                     4
 ALTER TABLE t ADD constraint;
Drop a constraint
                                                                                     2
 ALTER TABLE t DROP constraint;
Rename a table from t1 to t2
                                                                                     4
 ALTER TABLE t1 RENAME TO t2;
Rename column c1 to c2
```

```
4
  ALTER TABLE t1 RENAME c1 TO c2;
Remove all data in a table
                                                                                    4
  TRUNCATE TABLE t;
Using SQL constraints
Set c1 and c2 as a primary key
                                                                                    CREATE TABLE t(
      c1 INT, c2 INT, c3 VARCHAR,
      PRIMARY KEY (c1,c2)
  );
Set c2 column as a foreign key
                                                                                    4
  CREATE TABLE t1(
      c1 INT PRIMARY KEY,
      c2 INT,
      FOREIGN KEY (c2) REFERENCES t2(c2)
 );
Make the values in c1 and c2 unique
                                                                                    2
  CREATE TABLE t(
      c1 INT, c1 INT,
      UNIQUE(c2,c3)
  );
Ensure c1 > 0 and values in c1 >= c2
                                                                                   2
  CREATE TABLE t(
```

```
c1 INT, c2 INT,
  CHECK(c1> 0 AND c1 >= c2)
);
```

Set values in c2 column not NULL

```
CREATE TABLE t(
    c1 INT PRIMARY KEY,
    c2 VARCHAR NOT NULL
);
```

Modifying **Data**

Insert one row into a table

```
INSERT INTO t(column_list)
VALUES(value_list);
```

Insert multiple rows into a table

Insert rows from t2 into t1

```
INSERT INTO t1(column_list)
SELECT column_list
FROM t2;
```

Update new value in the column c1 for all rows

```
UPDATE t
```

2

2

2

4

^ @

```
SET c1 = new value;
```

Update values in the column c1, c2 that match the condition

Delete all data in a table

```
DELETE FROM t;
```

Delete subset of rows in a table

```
DELETE FROM t

WHERE condition;
```

Managing Views

Create a new view that consists of c1 and c2

```
CREATE VIEW v(c1,c2)

AS

SELECT c1, c2

FROM t;
```

Create a new view with check option

```
CREATE VIEW v(c1,c2)

AS

SELECT c1, c2

FROM t;
```

Create a unique index on c3, c4 of the t table

CREATE UNIQUE INDEX idx_name

ON t(c3,c4)

4

```
WITH [CASCADED | LOCAL] CHECK OPTION;
Create a recursive view
                                                                                   2
 CREATE RECURSIVE VIEW V
 AS
 select-statement -- anchor part
 UNION [ALL]
 select-statement; -- recursive part
Create a temporary view
                                                                                   4
 CREATE TEMPORARY VIEW ∨
 SELECT c1, c2
 FROM t;
Delete a view
                                                                                   4
 DROP VIEW view name;
Managing indexes
Create an index on c1 and c2 of the t table
                                                                                   4
 CREATE INDEX idx_name
 ON t(c1,c2);
```

Drop an index

DROP INDEX idx_name;



Managing triggers

Create or modify a trigger

CREATE OR MODIFY TRIGGER trigger_name
WHEN EVENT
ON table_name TRIGGER_TYPE
EXECUTE stored_procedure;

2

WHEN

BEFORE – invoke before the event occurs

AFTER – invoke after the event occurs

EVENT

INSERT – invoke for INSERT

UPDATE – invoke for UPDATE

DELETE – invoke for DELETE

TRIGGER_TYPE

FOR EACH ROW

FOR EACH STATEMENT

Delete a specific trigger

DROP TRIGGER trigger_name;



ADVERTISEMENT



×



Search this website

GETTING STARTED

What Is SQL

SQL Sample Database

SQL Syntax

ADVERTISEMENT

×

SQL TUTORIAL

SQL SELECT

SQL ORDER BY

SQL DISTINCT

SQL LIMIT

SQL FETCH

SQL WHERE

SQL Comparison Operators

SQL Logical Operators

SQL AND

SQL OR

SQL BETWEEN

SQL IN

SQL LIKE

SQL NOT

SQL IS NULL

SQL Alias

SQL INNER JOIN

SQL LEFT JOIN

SQL SELF JOIN

SQL FULL OUTER JOIN

SQL CROSS JOIN

SQL GROUP BY

SQL GROUPING SETS

SQL ROLLUP

SQL CUBE

SQL HAVING

SQL Subquery

SQL Correlated Subquery

SQL ALL

SQL ANY

SQL EXISTS

SQL UNION

SQL INTERSECT

SQL CASE

SQL MINUS

SQL INSERT

SQL UPDATE

SQL DELETE

SQL AGGREGATE FUNCTIONS

SQL AVG

SQL COUNT

SQL MAX

SQL MIN

SQL SUM

ADVERTISEMENT

×

MANAGING DATABASE OBJECTS

SQL Data Types

SQL CREATE TABLE

SQL Identity

SQL Auto Increment

SQL ALTER TABLE

SQL ADD COLUMN

SQL DROP COLUMN

SQL DROP TABLE

SQL TRUNCATE TABLE

SQL CONSTRAINTS

SQL Primary Key

SQL Foreign Key

SQL UNIQUE Constraint

SQL CHECK Constraint

SQL NOT NULL Constraint

ADVERTISEMENT

×

The SQLTutorial.org is created to help you master the SQL language fast by using simple but practical examples and easy-to-understand explanations.

Search this website

RECENT TUTORIALS

SQL Sample Database

SQL DROP COLUMN

SQL Identity

SQL Auto Increment

SQL ADD COLUMN

SITE LINKS

Home

Contact Us

Privacy Policy

Copyright © 2020 SQL Tutorial. All Rights Reserved.