What is DDL and DML [closed]

Ask Question



255

Can you please help me understand from scratch about DDL & DML?







dml



86

edited Feb 7 at 17:52



Outman

516 6 19

asked Apr 5 '10 at 11:52



Sachindra

1,934 5 23 35

closed as too broad by meagar ♦ Dec 31 '18 at 19:15

Please edit the question to limit it to a specific problem with enough detail to identify an adequate answer. Avoid asking multiple distinct questions at once. See the How to Ask page for help clarifying this question.

If this question can be reworded to fit the rules in the help center, please edit the question.

12 Answers



DDL is **Data Definition Language**



: it is used to define data structures.

For example, with SQL, it would be instructions such as create table, alter table, ...

DML is **Data Manipulation** Language: it is used to manipulate data itself.

For example, with SQL, it would be instructions such as insert, update, ${\tt delete} \ , \ \dots$

answered Apr 5 '10 at 11:56



Pascal MARTIN

339k 59 589 615

- 2 DESCRIBE is DDL or DML? -Tom J Muthirenthi Jan 19 '17 at 3:21
- @TomJMuthirenthi I don't think DESCRIBE fits into any of the two. It just returns it's own representation of how a Table/DB is structured. You can achieve the same thing with e.g. CREATE but not as "human-readable" -JensV Sep 11 '17 at 15:26

If SELECT is considered DML, then DESCRIBE should be considered DDL. - Shloim Aug 29 '18 at 14:56



More information see here: MySQL What is DDL, DML and DCL?, the original is as follows:

DDL

DDL is short name of Data Definition Language, which deals with database schemas and descriptions, of how the data should reside in the database.

- CREATE to create database and its objects like (table, index, views, store procedure, function and triggers)
- ALTER alters the structure of the existing database

- DROP –
 delete objects
 from the
 database
- TRUNCATE remove all records from a table, including all spaces allocated for the records are removed
- COMMENT add comments to the data dictionary
- RENAME rename an object

DML

DML is short name of Data Manipulation Language which deals with data manipulation, and includes most common SQL statements such SELECT, INSERT, UPDATE, DELETE etc, and it is used to store, modify, retrieve, delete and update data in database.

- SELECT retrieve data from the a database
- INSERT –
 insert data into
 a table
- UPDATE updates

existing data within a table

- DELETE –
 Delete all
 records from a
 database table
- MERGE UPSERT operation (insert or update)
- CALL call a PL/SQL or Java subprogram
- EXPLAIN
 PLAN –
 interpretation
 of the data
 access path
- LOCK TABLE

 concurrency

DCL

DCL is short name of Data Control Language which includes commands such as GRANT, and mostly concerned with rights, permissions and other controls of the database system.

- GRANT allow users access privileges to database
- REVOKE –
 withdraw
 users access
 privileges
 given by using

the GRANT command

TCL

TCL is short name of Transaction
Control Language which deals with transaction within a database.

- COMMIT commits a Transaction
- ROLLBACK rollback a transaction in case of any error occurs
- SAVEPOINT to rollback the transaction making points within groups
- SET TRANSACTIO N – specify characteristics for the transaction

edited Jun 30 '17 at 1:40

answered Jun 28 '17 at 7:46



Terry

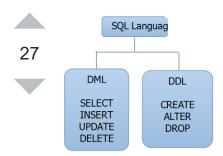
1,607 1 8 5

you might want to expand you answer a little in any future case that link would become unavailable – svarog Jun 28 '17 at 8:20

Sometimes you'll also see commands such as SELECT / SHOW / EXPLAIN /

HELP split off from DML and grouped under DQL, with the Q from Query -- because they don't really manipulate anything. – Fx32
Nov 17 '17 at 14:04

TRUNCATE should be DML – Pete Alvin Sep 2 '18 at 10:20



DDL, Data Definition Language

- Create and modify the structure of database object in a database.
- These database object may have the Table, view, schema, indexes....etc

e.g.:

 CREATE , ALTER , DROP , TRUNCATE , COMMIT , etc.

DML, Data Manipulation Language

DML statement are affect on table. So that

is the basic operations we perform in a table.

- Basic crud operation are perform in table.
- These crud operation are perform by the SELECT, INSERT, UPDATE, etc.

Below Commands are used in DML:

• INSERT , UPDATE , SELECT , DELETE , etc.

edited May 5 '17 at 21:47



Dorian

13.1k 3 75 87

answered Dec 31 '16 at 8:38



JegsVala

1,110 14 21

This is excellent. – Tigerjz32 Mar 24 '17 at 21:18



DDL is Data Definition Language

10



: Specification notation for defining the database schema. It works on Schema level.

DDL commands are:

create,drop,alter,rena
me,truncate

For example:

create table account (
 account-number charbalance integer);

DML is Data
Manipulation
Language .It is used
for accessing and
manipulating the data.

DML commands are:

select,insert,delete,up

For example:

update account set bala

edited Oct 5 '18 at 15:54

answered Jul 31 '17 at 17:13



Raju

354 3 9

@isapir There are three general ways you can "manipulate" data in SQL: (1)You can change which results are presented. (2)You can change how the results are presented or organized (in terms of things like sort order, etc). (3)You can change the underlying data. In the first case, you can change which results are presented by using different WHERE clauses, JOIN predicates, etc, in a SELECT statement, ie- "select * from account;" will give a much different result (assuming account has more than 1 row) than select * from account where balance = 1000; -Raju Sep 30 '18 at 8:28 🧪

When you select the

data in different formats, you modify the presentation of the data for that query, and not the data itself. The M in DML stands for Manipulation, or in laymen terms Modification, of the data. SELECT does not modify the data. Alternatively, TRUNCATE does, and is therefore a DML instruction and NOT a DDL one. isapir Sep 30 '18 at 17:43



In layman terms suppose you want to build a house, what do you do.

DDL i.e Data
Definition Language

- 1. Build from scratch
- 2. Rennovate it
- Destroy the older one and recreate it from scratch

that is

- 1. CREATE
- 2. ALTER
- 3. DROP & CREATE

DML i.e. Data Manipulation Language

People come/go inside/from your house

- 1. SELECT
- 2. DELETE
- 3. UPDATE

4. TRUNCATE

DCL i.e. Data Control Language

You want to control the people what part of the house they are allowed to access and kind of access.

1. GRANT PERMISSION

edited Jun 21 '18 at 3:16

answered Jul 4 '17 at 6:42



Satish Patel **905** 14 30



DML is abbreviation of **Data Manipulation** Language. It is used to retrieve, store, modify, delete, insert and update data in

Examples: SELECT, UPDATE, **INSERT** statements

database.

DDL is abbreviation of **Data Definition** Language. It is used to create and modify the structure of database objects in database.

Examples: CREATE, ALTER, **DROP** statements Visit this site for more info:

http://blog.sqlauthority.com/2008/01/15/sql-server-what-is-dml-ddl-dcl-and-tcl-introduction-and-

edited Jul 6 '18 at 0:49

examples/



Pang

951 16 64 103

answered Nov 22 '13 at 1:55



Uc.IT_samuel **128** 1 9



3

DDL is Data Definition Language: Just think you are defining the DB. So we use CREATE,ALTER TRUNCATE commands. DML is after defining we are Manipulating the data. So we use SELECT,INSERT,

UPDATE, DELETE

command.

Remember DDL
commands are autocommitted. You don't
need to use COMMIT
statements.
DML (Data
Manipulation
Language) commands
need to be
commited/rolled back.

answered Jun 6 '16 at 13:52



Chinmoy

658 6



DDL: Change the schema



DML: Change the data

Seems specific to MySQL limitations (rails's source code)

answered May 5 '17 at 21:48



Dorian

13.1k 3 75 87



In simple words.



DDL(Data definition language): will work on structure of data. define the data structures.

DML (data manipulation language): will work on data. manipulates the data itself

answered Sep 9 '15 at 11:00



Sakib





2

DDL = Data Definition Language, any commands that provides structure and other information about your data

DML = Data
Manipulation
Language, there's only
3 of them, INSERT,
UPDATE, DELETE. 4,
if you will count SELECT
* INTO x_tbl from tbl
of MSSQL (ANSI SQL:
CREATE TABLE x_tbl AS

SELECT * FROM tbl)

https://stackoverflow.com/questions/2578194/what-is-ddl-and-dml

answered Apr 5 '10 at 12:01



Michael Buen **31.4k** 5 72



DDL



ons,Stored Procedures)

DML

Insert ,Delete,Update,Trunca te of (Tables)

answered Jul 2 '17 at 11:57



rajender kumar

136 1 6



Definition Language. DDL is used for defining structure of the table such as create a table or adding a column to table and even drop and truncate table.

DDL stands for Data

DML stands for Data Manipulation Language. As the name suggest DML used for manipulating the data of table. There are some commands in DML such as insert and

delete.

