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What are the difference between DDL, DML and DCL commands?

Submitted by admin on Wed, 2004-08-04 13:49

DDL

Data Definition Language (DDL) statements are used to define the database structure or schema. Some examples:

- CREATE to create objects in the database
- · ALTER alters the structure of the database
- o DROP delete objects from the database
- o 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

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DML

Data Manipulation Language (DML) statements are used for managing data within schema objects. Some examples:

- o SELECT retrieve data from the a database
- INSERT insert data into a table
- UPDATE updates existing data within a table
- o DELETE deletes all records from a table, the space for the records remain
- MERGE UPSERT operation (insert or update)
- o CALL call a PL/SQL or Java subprogram
- o EXPLAIN PLAN explain access path to data
- LOCK TABLE control concurrency

DCL

Data Control Language (DCL) statements. Some examples:

- o GRANT gives user's access privileges to database
- o REVOKE withdraw access privileges given with the GRANT command

TCL

Transaction Control (TCL) statements are used to manage the changes made by DML statements. It allows statements to be grouped together into logical transactions.

- · COMMIT save work done
- SAVEPOINT identify a point in a transaction to which you can later roll back
- o ROLLBACK restore database to original since the last COMMIT
- SET TRANSACTION Change transaction options like isolation level and what rollback segment to use

< SQL

Difference between TRUNCATE, DELETE and DROP

commands >

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Submitted by madhuker (not verified) on Wed, 2005-04-06 03:20.

DML statements can be rollbacked where DDL are autocommit.

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DML commands can't be

Submitted by ramakrishna (not verified) on Thu, 2006-01-05 09:35.

DML commands can't be rollback when a DDL command is executed immediately after a DML. DDL after DML means "auto commit". The changes will return on disk not on the buffer. If the changes return on the buffer it is possible to rollback not from the disk.

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Submitted by R. SATISH KUMAR (not verified) on Wed, 2005-04-13 03:09.

DEAR SIR

Let me tell you the difference between DDL,DML,TCL and DCL:

DDL COMMANDS:

CREATE, ALTER, DROP AND TRUNCATE ARE CALLED DDL COMMANDS. They are called Data Definition since they are used for defining the data. That is the structure of the data is known through these DDL commands.

DMI COMMANDS

 $\ensuremath{\mathsf{DML}}$ commands are used for data manipulation. Some of the $\ensuremath{\mathsf{DML}}$ commands

insert, select, update, delete etc. Even though select is not exactly a DML language command oracle still recommends you to consider SELECT as an DML command.

TCL:

For revoking the transactions and to make the data commit to the database we use TCL. Some of the TCL commands are:

- 1. ROLLBACK
- 2. COMMIT

ROLLBACK is used for revoking the transactions until last commit.

COMMIT is used for commiting the transactions to the database.

Once we commit we cannot rollback. Once we rollback we cannot commit.

Commit and Rollback are generally used to commit or revoke the transactions that are with regard to DML commands.

DCL:

Data Control Language is used for the control of data. That is a user can access any data based on the priveleges given to him. This is done through DATA CONTROL LANGUAGE. Some of the DCL Commands are:

- 1. GRANT
- 2. REVOKE.

"THESE ARE REFERRED FROM THE BOOK 'ORACLE 9i complete Reference' written by Kooch and George. This is an Oracle Press Release." If you want further details about this topic I can give you. Since I don't know your e-mail address I am not able to send you the complete information. I will give my e-mail address. That is, satish_sathya1983@yahoo.co.in. You can send your email address to my email and i will discuss about this topic with you. If you can send me your email address I can send you an complete attachment of this topic.

Thanking you,

SATISH KUMAR.

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Submitted by Marcel van Oosterhout (not verified) on Wed, 2005-10-12 03:13.

SQL statements are often divided into three categories:

DML (Data Manipulation Language). These SQL statements are used to retrieve and manipulate data. This category encompasses the most fundamental commands including DELETE, INSERT, SELECT, and UPDATE. DML SQL statements have only minor differences between SQL variations. DML SQL commands include the following:

- DELETE to remove rows.
- o INSERT to add a row.
- SELECT to retrieve row.
- o UPDATE to change data in specified columns.

DDL (Data Definition Language). These SQL statements define the structure of a database, including rows, columns, tables, indexes, and database specifics such as file locations. DDL SQL statements are more part of the DBMS and have large differences between the SQL variations. DML SQL commands include the following:

- o CREATE to make a new database, table, index, or stored query.
- o DROP to destroy an existing database, table, index, or view.
- DBCC (Database Console Commands) statements check the physical and logical consistency of a database.

DCL (Data Control Language). These SQL statements control the security and permissions of the objects or parts of the database(s). DCL SQL statements are also more part of the DBMS and have large differences between the SQL variations. DML SQL commands include the following:

- o GRANT to allow specified users to perform specified tasks.
- o DENY to disallow specified users from performing specified tasks.
- REVOKE to cancel previously granted or denied permissions.

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Which 's the fastest command

Submitted by slib on Tue, 2010-02-23 22:54.

What is the fastest command type from the 3 command types: DDL, DML and DCL?

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DDL is the fastest command

Submitted by amirtharaj on Sat, 2014-02-01 08:20.

During the execution of DDL command. DDL command would not copy the actual content to rollback tablespace, hence it is fast compared to DML command.

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