

Engineering

Semester	T.E. Semester VI – EXTC Engineering
Subject	Computer Communication Network (CCN)
Laboratory Teacher:	Prof. Santosh Tamboli
Laboratory	MS-Teams online

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Grade and Subject Teacher's Signature	

Experiment Number	02
Experiment Title	To study DDL commands
Aim	To study DDL (data definition language) commands such as <ul style="list-style-type: none"> • create • drop • truncate • rename • alter
Resources / Apparatus Required	Hardware: PC Software: Oracle Database 10g
Theory:	<ul style="list-style-type: none"> • <u>create</u>: It is used to create a table <p>Syntax:</p> <pre>create table table_name (col1_name data_type constraints, col2_name data_type constraints, colN_name data_type constraints, constraints)</pre> <p>eg.</p> <pre>create table employee (id number(3) primary key,</pre>

	<pre>name varchar2(20), salary number(7,2), dob date)</pre> <ul style="list-style-type: none"> To know the structure of table: <p>eg. desc employee</p> <u>drop</u>: It is used to delete table <p>Syntax: drop table table_name</p> <p>eg. drop table employee</p> <u>truncate</u>: It is used to delete all the data from the table. Table becomes empty. <p>Syntax: truncate table table_name</p> <p>eg. truncate table employee</p> <u>rename</u>: It is used to change the name of a table <p>Syntax: rename old_table_name to new_table_name</p> <p>eg. rename employee to empnew</p> <u>alter</u>: This command is used to perform column related tasks <ol style="list-style-type: none"> add: <pre>alter table table_name add col_name data_type</pre> <p>eg. alter table empnew add address varchar2(50)</p> modify: <pre>alter table table_name modify col_name data_type</pre> <p>eg. alter table empnew modify address varchar2(100)</p> drop: <pre>alter table table_name</pre>
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	<div>drop column col_name</div> <div>eg.</div> <div>alter table empnew</div> <div>drop column address</div>																																																		
Result:	<div>Create</div> <div>Code:</div> <div><div><div><input checked="" type="checkbox"/> Autocommit</div><div>Display</div><div>10</div><div>▼</div></div><div><pre>CREATE TABLE EMPLOYEE (ID NUMBER(3) PRIMARY KEY, NAME VARCHAR2(20), SALARY NUMBER(7,2), DOB DATE)</pre></div></div> <div>Result:</div> <div><div>ResultsExplainDescribeSaved SQLHistory</div><div>Table created.</div><div>0.02 seconds</div></div> <div>Describe</div> <div>Code:</div> <div><div><div><input checked="" type="checkbox"/> Autocommit</div><div>Display</div><div>10</div><div>▼</div></div><div><pre>DESCRIBE EMPLOYEE</pre></div></div> <div>Result:</div> <div><div>ResultsExplainDescribeSaved SQLHistory</div><div><div>Object TypeTABLE ObjectEMPLOYEE</div><table><tr><th>Table</th><th>Column</th><th>Data Type</th><th>Length</th><th>Precision</th><th>Scale</th><th>Primary Key</th><th>Nullable</th><th>Default</th><th>Comment</th></tr><tr><td>EMPLOYEE</td><td>ID</td><td>Number</td><td>-</td><td>3</td><td>0</td><td>1</td><td>-</td><td>-</td><td>-</td></tr><tr><td></td><td>NAME</td><td>Varchar2</td><td>20</td><td>-</td><td>-</td><td>-</td><td>✓</td><td>-</td><td>-</td></tr><tr><td></td><td>SALARY</td><td>Number</td><td>-</td><td>7</td><td>2</td><td>-</td><td>✓</td><td>-</td><td>-</td></tr><tr><td></td><td>DOB</td><td>Date</td><td>7</td><td>-</td><td>-</td><td>-</td><td>✓</td><td>-</td><td>-</td></tr></table><div>1 - 4</div></div></div> <div>Drop</div> <div>Code:</div>	Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment	EMPLOYEE	ID	Number	-	3	0	1	-	-	-		NAME	Varchar2	20	-	-	-	✓	-	-		SALARY	Number	-	7	2	-	✓	-	-		DOB	Date	7	-	-	-	✓	-	-
Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment																																										
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	SALARY	Number	-	7	2	-	✓	-	-																																										
	DOB	Date	7	-	-	-	✓	-	-																																										

☒ Autocommit Display 10 ▼

```
DROP TABLE EMPLOYEE
```

Result:

Results Explain Describe Saved SQL History

Table dropped.

0.07 seconds

Truncate

Code:

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```
TRUNCATE TABLE EMPLOYEE
```

Result:

Results Explain Describe Saved SQL History

Table truncated.

0.20 seconds

Rename

Code:

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```
RENAME EMPLOYEE TO EMPNEW
```

Result:

Results Explain Describe Saved SQL History

Statement processed.

0.05 seconds

Alter

Code-1:

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```
ALTER TABLE EMPNEW  
ADD ADDRESS VARCHAR2(50)
```

Result-1:

Results Explain Describe Saved SQL History

```
Table altered.
```

0.22 seconds

Code-2:

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```
ALTER TABLE EMPNEW  
MODIFY ADDRESS VARCHAR2(100)
```

Result-2:

Results Explain Describe Saved SQL History

```
Table altered.
```

0.24 seconds

Code-3:

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```
ALTER TABLE EMPNEW  
DROP COLUMN ADDRESS
```

Result-3:

Results Explain Describe Saved SQL History

```
Table altered.
```

0.21 seconds

Conclusion:	In this experiment, we learned about DDL commands. We learned that DDL commands can be used to define the database schema. These commands deal with the description of the database schema, and are used to create and modify the structure of objects in the database.
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