



Instructor:

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Learning Objectives:

- Understanding of DDL commands.

Helping Material:

1. Important DDL Statements

The most important DDL statements in SQL are following:

- **CREATE DATABASE** - creates a new database
`CREATE DATABASE databasename;`
- **ALTER DATABASE** - modifies a database
`DROP DATABASE databasename;`
- **CREATE TABLE** - creates a new table
`CREATE TABLE table_name (
 column1 datatype NOT NULL/ IDENTITY(1,1)/ UNIQUE/ Primary Key,
 column2 datatype,
 column3 datatype CHECK (condition),
 PRIMARY KEY (column_name), (You can also make primary key in this way)
 FOREIGN KEY (column_name) REFERENCES Table(column_name) (You can make foreign key in
this way)

);`
`CREATE TABLE new_table_name AS
 SELECT column1, column2,...
 FROM existing_table_name
 WHERE;`
OR
`SELECT * Into <DestinationTableName> FROM <SourceTableName> WHERE condition;`
- **ALTER TABLE** - modifies a table
`ALTER TABLE table_name
ADD column_name datatype;
DROP COLUMN column_name;
ALTER COLUMN column_name datatype;
ADD CONSTRAINT PK_Person PRIMARY KEY (Column1,Column2)
ADD Column_name datatype FOREIGN KEY REFERENCES Table_name(column_name)
ADD CONSTRAINT df_City DEFAULT 'Sandnes' FOR City;
ALTER COLUMN City DROP DEFAULT;`
- **DROP TABLE** - deletes a table
`DROP TABLE table_name;
TRUNCATE TABLE table_name;`
- **CREATE INDEX** - creates an index (search key)
`CREATE INDEX/UNIQUE INDEX index_name ON table_name (column1, column2, ...);
CREATE INDEX idx_pname ON Table_name (LastName, FirstName);`
- **DROP INDEX** - deletes an index
`DROP INDEX table_name.index_name;`

- **BackUp Database**

`BACKUP DATABASE databasename TO DISK = 'filepath\file_name.bak';`

`BACKUP DATABASE databasename TO DISK = 'filepath' WITH DIFFERENTIAL;`

What to Submit:

- Nothing 😊