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SQL DATABASE

**SQL Create DB**

CREATE DATABASE databasename;



**SQL DROP DATABASE**

DROP DATABASE databasename;

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**SQL BACKUP DATABASE for SQL Server**

BACKUP DATABASE testDB  
TO DISK = 'D:\backups\testDB.bak';



**SQL CREATE TABLE Statement**

CREATE TABLE Persons (

PersonID int,

LastName varchar(255),

FirstName varchar(255),

Address varchar(255),

City varchar(255)

);



**SQL DROP TABLE Statement**

DROP TABLE Persons;



**SQL ALTER TABLE Statement**

ALTER TABLE Persons

ADD Email varchar(255);



**SQL NOT NULL Constraint**

CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255) NOT NULL,  
    Age int  
);

**SQL UNIQUE Constraint on CREATE TABLE**

CREATE TABLE Persons (  
    ID int NOT NULL UNIQUE,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int  
);

**SQL PRIMARY KEY Constraint**

CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    PRIMARY KEY (ID)  
);

**SQL FOREIGN KEY Constraint**

CREATE TABLE Orders (  
    OrderID int NOT NULL,  
    OrderNumber int NOT NULL,  
    PersonID int,  
    PRIMARY KEY (OrderID),  
    FOREIGN KEY (PersonID) REFERENCES Persons(PersonID)  
);

**SQL CHECK Constraint**

CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    CHECK (Age>=18)  
);

**SQL DEFAULT Constraint**

CREATE TABLE Persons (  
    ID int NOT NULL,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    City varchar(255) DEFAULT 'Sandnes'  
);

The DEFAULT constraint is used to provide a default value for a column.

The default value will be added to all new records IF no other value is specified.

**SQL CREATE INDEX Statement**

CREATE INDEX idx\_lastname  
ON Persons (LastName);



**AUTO INCREMENT Field**

CREATE TABLE Persons (  
    Personid int NOT NULL AUTO\_INCREMENT,  
    LastName varchar(255) NOT NULL,  
    FirstName varchar(255),  
    Age int,  
    PRIMARY KEY (Personid)  
);



**SQL Date Data Types**

**MySQL** comes with the following data types for storing a date or a date/time value in the database:

* DATE - format YYYY-MM-DD
* DATETIME - format: YYYY-MM-DD HH:MI:SS
* TIMESTAMP - format: YYYY-MM-DD HH:MI:SS
* YEAR - format YYYY or YY

**Note:** The date types are chosen for a column when you create a new table in your database!

**SQL CREATE VIEW Statement**

CREATE VIEW [Brazil Customers] AS  
SELECT CustomerName, ContactName  
FROM Customers  
WHERE Country = 'Brazil';

**SQL Updating a View**

CREATE OR REPLACE VIEW [Brazil Customers] AS  
SELECT CustomerName, ContactName, City  
FROM Customers  
WHERE Country = 'Brazil';

**SQL Dropping a View**

DROP VIEW [Brazil Customers];

**QUIZ**



