SQL komade

1. DML (Data Manipulation Language) komande

```
1.1. SELECT
SELECT *
FROM Product
SELECT Name, ProductNumber, Color
FROM Production.Product
WHERE DaysToManufacture = 2
SELECT ProductNumber, ListPrice
FROM Production.Product
WHERE ListPrice IN (52.64, 74.99, 147.14)
SELECT ProductID, LocationID, SUM (Quantity) AS TotalQuantity
FROM Production.ProductInventorv
GROUP BY ProductID, LocationID
ORDER BY ProductID, LocationID DESC
SELECT P.ProductNumber, R.Comments
FROM Production. Product P
INNER JOIN Production. ProductReview R
ON P.ProductID = R.ProductID
SELECT LastName, FirstName
FROM Person.Person
WHERE Title =
         (SELECT DISTINCT Title
              FROM Person.Person
       WHERE Title IS NOT NULL)
ORDER BY LastName
1.2 INSERT
INSERT INTO Osobe
       (Prezime, Ime, Telefon, Email)
       ('Azemović', 'Jasmin', '061-000-000', 'jasmin@edu.fit.ba')
INSERT INTO Osobe
       ('Azemović', 'Jasmin', '061-000-000', 'jasmin@edu.fit.ba')
INSERT INTO Osobe
       ('Azemović', 'Jasmin', '061-000-000', 'jasmin@edu.fit.ba'), ('Azemović', 'Jasmin', '061-000-000', 'jasmin@edu.fit.ba')
INSERT INTO Osobe
       SELECT AP.LastName, AP.FirstName, APP.PhoneNumber, AEA.EmailAddress
       FROM AdventureWorks2014.Person.Person AS AP
SELECT Title + ','+FirstName + ' ' +LastName AS Customer
       INTO OsobeTitule
FROM AdventureWorks2014.Person.Person
```

```
1.3 UPDATE

UPDATE Person.Person

SET FirstName = 'New Ken', LastName = 'New Sánchez'

WHERE BusinessEntityID = 1

UPDATE Person.Person

SET FirstName = 'New Ken', LastName = 'New Sánchez'

UPDATE Production.Product

SET ListPrice = ListPrice * 1.1

FROM Production.ProductCategory AS PC

WHERE PC.Name = 'Bikes'

1.4 DELETE

DELETE FROM Firme

WHERE FirmaID = 99

DELETE FROM Firme

TRUNCATE TABLE Production.TransactionHistoryArchive
```

2. DDL (Data Definition Language) komande

```
2.1 CREATE
2.1.1 Kreiranje baza
CREATE DATABASE Prodaja

CREATE DATABASE Prodaja
ON
    (NAME = Prodaja_dat, FILENAME = 'C:\Data\Prodaja.mdf', SIZE = 100MB, MAXSIZE = 500MB, FILEGROWTH = 20% )
LOG ON
    (NAME = Prodaja_log, FILENAME = 'D:\Logs\Prodaja.ldf', SIZE = 20MB, MAXSIZE = UNLIMITED, FILEGROWTH = 10MB );

2.1.2 Kreiranje tipa podatka
CREATE TYPE ProductNumber
    FROM nvarchar(20) NOT NULL;
GO
```

```
2.1.3 Kreiranje tabela
CREATE TABLE Kupci
  KupacID int IDENTITY(1,1) CONSTRAINT PK Kupac PRIMARY KEY,
  Prezime nvarchar(30) NOT NULL,
  Ime nvarchar(30) NOT NULL,
  Telefon nvarchar (30) NULL,
  Email nvarchar (100) NOT NULL CONSTRAINT UQ_Email UNIQUE,
  DatumRodjenja date NOT NULL,
  GradID int NOT NULL CONSTRAINT FK Kupac Gradovi FOREIGN KEY REFERENCES Gradovi
(GradID).
  GodinaRodjenja AS DATEPART (year, DatumRodjenja) PERSISTED
);
CREATE TABLE #Squares
  NumberID int PRIMARY KEY,
  NumberSquared int
);
2.1.4 Kreiranje VIEW-ova
CREATE VIEW HumanResources. EmployeeList
--WITH ENCRYPTION
AS
       SELECT E.BusinessEntityID, P.LastName, P.FirstName
       FROM Person.Person AS P
       INNER JOIN HumanResources. Employee AS E
       ON P.BusinessEntityID = E.BusinessEntityID
GO.
2.1.5 Kreiranje procedura
CREATE PROCEDURE Sales.OrdersByDueDateAndStatus 2
--WITH ENCRYPTION
AS
SELECT SalesOrderID, OrderDate, CustomerID
FROM Sales.SalesOrderHeader
CREATE PROCEDURE Sales.OrdersByDueDateAndStatus
       @DueDate datetime, @Status tinyint = 5
AS
SELECT SalesOrderID, OrderDate, CustomerID
FROM Sales.SalesOrderHeader
WHERE DueDate = @DueDate
AND [Status] = @Status;
CREATE PROCEDURE Sales.GetSalesPersonNames
AS
BEGIN
  SELECT SP.BusinessEntityID, P.LastName, P.FirstName
  FROM Sales.SalesPerson AS SP
  INNER JOIN Person.Person AS P
  ON SP.BusinessEntityID = P.BusinessEntityID
  WHERE SP.TerritoryID IS NOT NULL
  ORDER BY sp.BusinessEntityID
END;
```

```
2.1.6 Kreiranje tigera
CREATE TRIGGER Preventiva
ON DATABASE
FOR DROP TABLE, ALTER TABLE, DROP VIEW
   PRINT 'Brisanje i izmjena nad objetima nije dozvoljena!'
   ROLLBACK;
CREATE TRIGGER TR ProductReview Update
ON Production.ProductReview
AFTER UPDATE AS
BEGIN
    SET NOCOUNT ON;
    UPDATE PR
    SET PR.ModifiedDate = SYSDATETIME()
    FROM Production ProductReview AS PR
    INNER JOIN inserted AS I
    ON I.ProductReviewID = PR.ProductReviewID;
END;
2.1.7 Kreiranje indexa
CREATE NONCLUSTERED INDEX IX_Book_Publisher
  ON dbo.Book (PublisherID, ReleaseDate DESC)
  INCLUDE (Title);
GO
2.1.8 Kreiranje logina i usera
/* Windows lokalni ili domenski nalog*/
CREATE LOGIN [X3\Jasmin]
FROM WINDOWS
WITH DEFAULT DATABASE = AdventureWorks2014
/* SQL Server login*/
CREATE LOGIN Selver
WITH PASSWORD = 'Pa$$w0rd',
DEFAULT_DATABASE = pubs
CREATE USER SuperUser FOR LOGIN [X3\Jasmin]
CREATE USER Denis FOR LOGIN [FIT\Denis]
WITH DEFAULT_SCHEMA = profesori
```

```
2.2. ALTER
2.2.1 Izmjena na tabelama
ALTER TABLE Kupci
ADD Email nvarchar(100) NOT NULL;
ALTER TABLE Kupci
DROP COLUMN Telefon;
2.2.2 Izmjena na VIEW-ovima
ALTER VIEW HumanResources. EmployeeList
AS
       SELECT E.BusinessEntityID, P.LastName, P.FirstName, E.Gender, E.HireDate
       FROM Person.Person AS P
       INNER JOIN HumanResources. Employee AS E
       ON P.BusinessEntityID = E.BusinessEntityID
GO
2.2.3 Imjena na procedurama
ALTER PROCEDURE Sales.GetSalesPersonNames
AS
BEGIN
  SELECT SP.BusinessEntityID, P.LastName, P.FirstName
  FROM Sales.SalesPerson AS SP
  INNER JOIN Person.Person AS P
  ON SP.BusinessEntityID = P.BusinessEntityID
  WHERE SP. TerritoryID IS NOT NULL
  AND SP.SalesQuota IS NOT NULL
  ORDER BY sp.BusinessEntityID
END;
2.2.4 Izmjena na indexima
ALTER INDEX IX Book Publisher ON dbo.Book
 DISABLE;
GO
ALTER INDEX IX_Book_Publisher ON dbo.Book
  REBUILD;
GO
2.2.5 Izmjena logina
ALTER LOGIN Selver WITH PASSWORD = 'NewPa$$w0rd'
```

2.3. DROP

2.3.1 Brisanje baze

DROP DATABASE Prodaja

2.3.2 Brisanje tabele

DROP TABLE Kupci

GO

2.3.3 Brisaje VIEW-a

DROP VIEW HumanResources.EmployeeList

2.3.4 Brisanje procedure

DROP PROCEDURE Sales.GetSalesPersonNames GO

2.3.5 Brisanje indexa

DROP INDEX IX_Book_Publisher ON dbo.Book
GO

2.3.6 Brisanje logina i usera

DROP LOGIN [X3\Jasmin]

DROP USER [X3\Jasmin]