**פרק 18 – Table Constraints**

--1.

CREATE UNIQUE nonclustered INDEX [IDX\_unique\_OneOrderPerDay]

ON orders (orderdate, customerid)

WHERE orders.orderdate > datediff(dd,getdate()-1)

DROP INDEX IDX\_unique\_OneOrderPerDay ON orders

--2.

ALTER TABLE [dbo].[Orders] WITH CHECK

ADD CONSTRAINT [CK\_freight] CHECK (([freight]>=(0)))

--3.

ALTER TABLE [dbo].[Orders] WITH CHECK

ADD CONSTRAINT [CK\_requiredDate] CHECK ((requiredDate>orderDate))

--4.

CREATE TABLE [dbo].Doors(

[DoorNumber] [int] NOT NULL primary key,

[Description] varchar(50) NOT NULL

) ON [PRIMARY]

CREATE TABLE [dbo].Entrance(

[EmpID] [int] NOT NULL foreign key references Employees(employeeId),

[EntryDate] [datetime] NULL default(getdate()),

[DoorNumber] [int] NOT NULL foreign key references Doors([DoorNumber]),

) ON [PRIMARY]

--good rows

insert into Doors([DoorNumber], [Description])

values (100, 'front door');

insert into Doors([DoorNumber], [Description])

values (101, 'back door');

insert into Doors([DoorNumber], [Description])

values (102, 'side door');

select \* from doors

--bad rows pk violation - duplicates

insert into Doors([DoorNumber], [Description])

values (100, 'front door');

insert into Doors([DoorNumber], [Description])

values (101, 'back door');

--good rows

insert into Entries ([EmpID], [EntryDate], [DoorNumber])

values (2, getdate(), 101);

insert into Entries ([EmpID], [EntryDate], [DoorNumber])

values (4, getdate(), 102);

insert into Entries ([EmpID], [EntryDate], [DoorNumber])

values (6, null, 100);

select \* from entries

--bad rows fk violation for empid and doornumber

insert into Entries ([EmpID], [EntryDate], [DoorNumber])

values (10, getdate(), 105);

insert into Entries ([EmpID], [EntryDate], [DoorNumber])

values (2, getdate(), 101);