

Fakulteti I Shkencave Kompjuterike dhe Inxhinierisë

Projekti: Pjesa dytë

SISTEMET E BAZËS SË TË DHËNAVE

Ligjërues : Prof. Ramiz Hoxha

Punuar nga : Elsan memeti

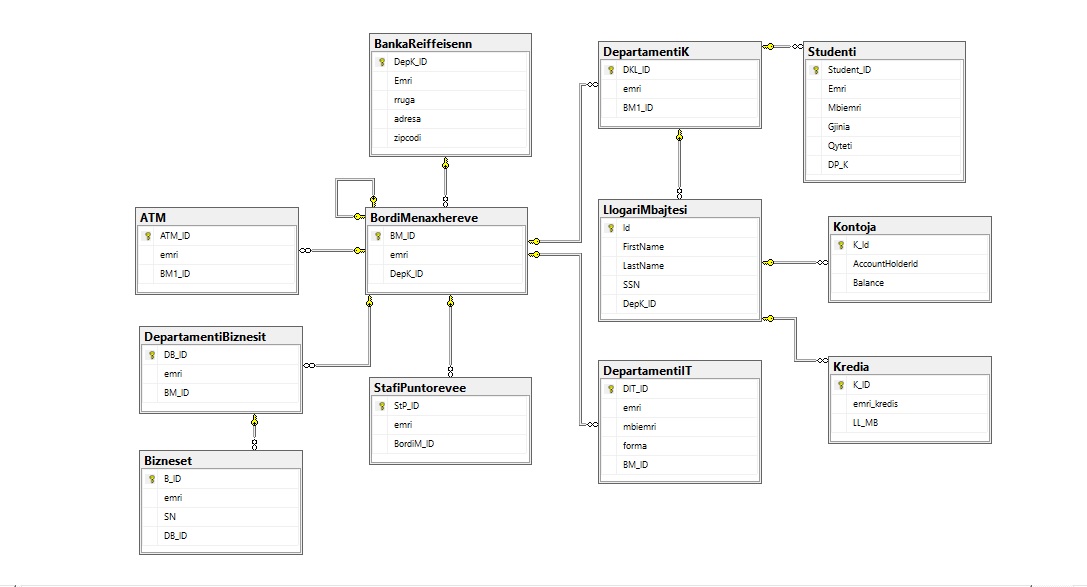
1. Database Diagram 

Fig 1: Modeli Relacionar

2. DDL

create database BANKAIME

use BANKAIME

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create table BankaReiffeisenn(

DepK\_ID int not null primary key,

Emri varchar(65),

rruga varchar(40),

adresa varchar(50),

zipcodi char(60),

);

select \* from BankaReiffeisenn

INSERT INTO BankaReiffeisenn VALUES (1,'BankaReiffeisenPR','Nene-terez','Baba-Tereze','12000');

INSERT INTO BankaReiffeisenn VALUES (2,'BankaReiffeisenGL','Nene-terez1','Baba-Tereze2','12500');

INSERT INTO BankaReiffeisenn VALUES (3,'BankaReiffeisenFR','Nene-terez','Baba-Tereze3','12600');

INSERT INTO BankaReiffeisenn VALUES (4,'BankaReiffeisenPZ','Nene-terez','Baba-Tereze4','12700');

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Create table BordiMenaxhereve(

BM\_ID int not null primary key,

emriBordit varchar(50),

DepK\_ID int,

constraint fk\_bordiMenaxhereve foreign key (BM\_ID) references BordiMenaxhereve(BM\_ID),

constraint Fk\_BordiMenaxherevee foreign key(DepK\_ID) references BankaReiffeisenn(DepK\_ID)

);

INSERT INTO BordiMenaxhereve VALUES (1,'Bordi i Menaxhereve PR',1);

INSERT INTO BordiMenaxhereve VALUES (2,'Bordi i Menaxhereve GL',2);

INSERT INTO BordiMenaxhereve VALUES (3,'Bordi i Menaxhereve FR',3);

INSERT INTO BordiMenaxhereve VALUES (4,'Bordi i Menaxhereve PZ',4);

select \* from BordiMenaxhereve

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Create table ATM(

ATM\_ID int primary key,

emri char(40),

BM1\_ID int,

CONSTRAINT FK\_BordiMENAXHEREV FOREIGN KEY(BM1\_ID) REFERENCES BordiMenaxhereve(BM\_ID)

);

INSERT INTO ATM (ATM\_ID,emri,BM1\_ID) VALUES (10,'Ne Qytetin e Prishtines',1);

INSERT INTO ATM (ATM\_ID,emri,BM1\_ID) VALUES (11,'Ne Qytetin e Gilanit',2);

INSERT INTO ATM (ATM\_ID,emri,BM1\_ID) VALUES (12,'Ne Qytetin e Ferizajit',3);

INSERT INTO ATM (ATM\_ID,emri,BM1\_ID) VALUES (13,'Ne Qytetin e Prizrenit',4);

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Create table DepartamentiIT(

DIT\_ID int primary key,

emri varchar(50),

mbiemri varchar(50),

forma varchar(50),

BM\_ID int,

constraint Fk\_DepartamentiIT foreign key(BM\_ID) references BordiMenaxhereve(BM\_ID)

);

insert into DepartamentiIT values ('1','erik','thaqi','backand','1');

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Create table DepartamentiK(

DKL\_ID int not null primary key,

emri char(50),

BM1\_ID int,

constraint Fk\_BordiMenaxhereve1 foreign key(BM1\_ID) references BordiMenaxhereve(BM\_ID)

);

INSERT INTO DepartamentiK (DKL\_ID,emri,BM1\_ID) VALUES (10,'Departameni i Klienteve PR',1);

INSERT INTO DepartamentiK (DKL\_ID,emri,BM1\_ID) VALUES (11,'Departameni i Klienteve GL',2);

INSERT INTO DepartamentiK (DKL\_ID,emri,BM1\_ID) VALUES (12,'Departameni i Klienteve FR',3);

INSERT INTO DepartamentiK (DKL\_ID,emri,BM1\_ID) VALUES (13,'Departameni i Klienteve PZ',4);

select \* from DepartamentiK

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create table Studenti(

Student\_ID char(5),

Emri varchar (20),

Mbiemri varchar (20),

Bilanci money,

Gjinia char(1),

Qyteti varchar (10),

DP\_K int,

Primary Key (Student\_ID),

check (Gjinia IN ('M','F','N')),

CONSTRAINT FK\_STUDENTI FOREIGN KEY (DP\_K) REFERENCES DepartamentiK(DKL\_ID)

);

select \* from Studenti

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('100','Liberta','Buja',300,'F', 'PZ',10);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('101','Berat','Gashi',400,'M','FR',11);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('102','Edita','Syla',250, 'F','PZ',12);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('103','Visar','Dema',100,'M','GJK',10);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('104','Kushtrim','Hoxha',230,'M','PR',11);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('105','Lenonora','Peci',350,'F','PR',12);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('106','Kushtrim','Hoxha',360,'M','PR',13);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('107','Lenonora','Peci',150,'F','PR',11);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('108','Besiana','Shkembi',120,'F','PR',10);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('109','Veton','Sopa',210,'M','PZ',13);

insert into Studenti (Student\_ID,Emri,Mbiemri,Bilanci,Gjinia,Qyteti,DP\_K) values ('110','Alketa','Jakupi',80,'F','FR',12);

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CREATE TABLE LlogariMbajtesi

(

Id INT NOT NULL,

FirstName VARCHAR(50) NOT NULL,

LastName VARCHAR(50) NOT NULL,

SSN CHAR(10) NOT NULL,

DepK\_ID INT NOT NULL

CONSTRAINT PK\_LlogariMbajtesi PRIMARY KEY (Id)

CONSTRAINT FK\_LlogariMbajtes FOREIGN KEY (DepK\_ID) REFERENCES DepartamentiK(DKL\_ID)

);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (1, 'Susan', 'Cane', '1234567890',10);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (2, 'Kim', 'Novac', '1234567890',11);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (3, 'Jimmy', 'Henderson', '1234567890',12);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (4, 'Steve', 'Stevenson', '1234567890',10);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (5, 'Bjorn', 'Sweden', '1234567890',12);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (6, 'Kiril', 'Petrov', '1234567902',13);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (7, 'Petar', 'Kirilov', '1234567890',10);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (8, 'Michka', 'Tsekova', '1234567890',11);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (9, 'Zlatina', 'Pateva', '1234567890',13);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (10, 'Monika', 'Miteva', '1234567890',12);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (11, 'Zlatko', 'Zlatyov', '1234567890',11);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (12, 'Petko', 'Petkov Junior', '1234567890',10);

INSERT INTO LlogariMbajtesi (Id, FirstName, LastName, SSN, DepK\_ID) VALUES (13, 'Susan', 'Cane', '1234567890',12);

select \* from LlogariMbajtesi

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Create table Kredia(

K\_ID int primary key,

emri\_kredis char(20),

LL\_MB int

CONSTRAINT FK\_LlogariMbajtesi FOREIGN KEY (LL\_MB) REFERENCES LlogariMbajtesi (Id)

);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (20,'ME KAMAT',1);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (21,'PA KAMAT',1);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (22,'ME KAMAT',2);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (24,'ME KAMAT',4);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (25,'PA KAMAT',5);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (27,'PA KAMAT',7);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (29,'PA KAMAT',9);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (30,'ME KAMAT',10);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (31,'PA KAMAT',11);

INSERT INTO Kredia (K\_ID,emri\_kredis,LL\_MB) VALUES (32,'MA KAMAT',12);

select \* from Kredia

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CREATE TABLE Kontoja

(

K\_Id INT NOT NULL,

AccountHolderId INT NOT NULL,

Balance MONEY DEFAULT 0

CONSTRAINT PK\_Kontoja PRIMARY KEY (K\_Id)

CONSTRAINT FK\_KontojLlogariMbajtesi FOREIGN KEY (AccountHolderId) REFERENCES LlogariMbajtesi(Id)

);

select \* from Kontoja

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (100, 2, 123.13);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (101, 5, 47354.23);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (102, 2, 6546543.23);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (103, 4, 15345.64);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (104, 5, 36521.20);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (105, 11, 54367.34);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (106, 7, 56569.20);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (107, 12, 99943.50);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (108, 9, 5349758.23);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (109,10, 543.30);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (110,11, 10.20);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (111, 12, 245656.23);

INSERT INTO Kontoja (K\_Id, AccountHolderId, Balance) VALUES (112, 1, 5435.32);

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Create table StafiPuntorevee(

StP\_ID int not null primary key,

emri varchar(50),

BordiM\_ID int not null,

constraint Fk\_Stafi foreign key (BordiM\_ID) references BordiMenaxhereve (BM\_ID)

);

INSERT INTO StafiPuntorevee (StP\_ID,emri,BordiM\_ID) VALUES (10,'Puntoret PR',1);

INSERT INTO StafiPuntorevee (StP\_ID,emri,BordiM\_ID) VALUES (11,'Puntoret GL',2);

INSERT INTO StafiPuntorevee (StP\_ID,emri,BordiM\_ID) VALUES (12,'Puntoret FR',3);

INSERT INTO StafiPuntorevee (StP\_ID,emri,BordiM\_ID) VALUES (13,'Puntoret PZ',4);

select \* from StafiPuntorevee

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Create table DepartamentiBiznesit(

DB\_ID int primary key,

emri varchar(50),

BM\_ID int,

constraint Fk\_DepartamentiBiznesit foreign key(BM\_ID) references BordiMenaxhereve(BM\_ID)

);

select \* from DepartamentiBiznesit

INSERT INTO DepartamentiBiznesit (DB\_ID,emri,BM\_ID) VALUES (10,'Departamenti i Biznesit PR',1);

INSERT INTO DepartamentiBiznesit (DB\_ID,emri,BM\_ID) VALUES (11,'Departamenti i Biznesit GL',2);

INSERT INTO DepartamentiBiznesit (DB\_ID,emri,BM\_ID) VALUES (12,'Departamenti i Biznesit FR',3);

INSERT INTO DepartamentiBiznesit (DB\_ID,emri,BM\_ID) VALUES (13,'Departamenti i Biznesit PZ',4);

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Create table Bizneset(

B\_ID int primary key,

emriBiznesit varchar(60),

SN char(10),

DB\_ID int,

constraint Fk\_DepartamentiBiznesi foreign key (DB\_ID) references DepartamentiBiznesit(DB\_ID)

);

INSERT INTO Bizneset (B\_ID,emriBiznesit,SN,DB\_ID) VALUES (14,'Al trade',321321,10);

INSERT INTO Bizneset (B\_ID,emriBiznesit,SN,DB\_ID) VALUES (15,'Metatrade',321321,11);

INSERT INTO Bizneset (B\_ID,emriBiznesit,SN,DB\_ID) VALUES (16,'Mehana',321321,12);

INSERT INTO Bizneset (B\_ID,emriBiznesit,SN,DB\_ID) VALUES (17,'Bau Trade',321321,13);

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Pesë query të thjeshta:

1.Te shfaqet Emri dhe mbiemri i studentit?

select Emri,Mbiemri

from Studenti

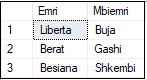


2. Te shfaqet Emri dhe mbiemri i studentit qe permban shkronjen B?

select Emri,Mbiemri

from Studenti

where Emri like '%B%'



-- te shfaqet ID e Biznesit me emer "Metatrade" ?

select B\_ID

from Bizneset

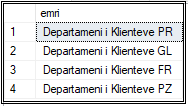
where emriBiznesit='Metatrade'



3.Te shfaqen Departamentet ?

select emri

from DepartamentiK

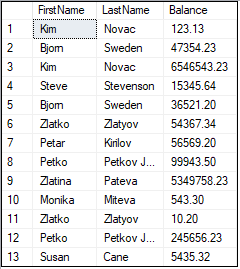


4 Te shfaqen emrat dhe mbiemrat dhe balanca e tyre e Llogarimbajtesave ?

select FirstName,LastName,Balance

from LlogariMbajtesi l,Kontoja k

where l.Id = k.AccountHolderId

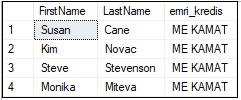


5. te shfaqen LlogariMbajtesit te cilen kan marr Kredi me kamat?

select FirstName,LastName,emri\_kredis

from LlogariMbajtesi m ,Kredia a

where m.Id = a.LL\_MB and emri\_kredis = 'ME KAMAT'



6 te Shfaqen kontot e te gjith Studenteve ?

select distinct s.Emri,s.Mbiemri, Balance

from Studenti s,DepartamentiK d,LlogariMbajtesi l,Kontoja k

where s.DP\_K = d.DKL\_ID and l.DepK\_ID = d.DKL\_ID and k.AccountHolderId = l.Id

7 Te shfaqet vetem biznesi nga Departamenti i biznesit PR ?

select emri

from DepartamentiBiznesit

where emri = 'Departamenti i Biznesit PR'



--te shfaqet emri mbiemri dhe Detyra e programerit te departamentit te IT ?

select emri,mbiemri,forma

from DepartamentiIT



-- Te shfaqen emrat dhe mbiemrat dhe balanca e tyre e Llogarimbajtesave ?

select FirstName,LastName,Balance

from LlogariMbajtesi l,Kontoja k

where l.Id = k.AccountHolderId

-- Shfaqini Bizneset te cilat gjenden ne prishtine dhe Numrin serial permes Departamentit te Biznesit, duke perdorur Subquery ?

select emriBiznesit,SN,emri

from Bizneset,DepartamentiBiznesit

where B\_ID=DB\_ID and DB\_ID = (select B\_ID 'Prishtine'

from Bizneset

where emriBiznesit = 10)

--gjeni cili llogarimbajtes ka Balancen me te madhe ?

select E.FirstName, E.LastName, max(k.Balance) as 'Balanca maks'

from LlogariMbajtesi E, Kontoja k

where E.Id = k.AccountHolderId

group by E.FirstName,E.LastName

having max(k.Balance) >=all(select max(k.Balance)

from Kontoja k, LlogariMbajtesi E

where k.AccountHolderId=E.Id )



----Shfletoni emrin e biznesit dhe Serial NR te cilete nuk gjinden ne Departamentin e Biznesit ?( me JOIN )

select P.emriBiznesit, P.SN

from Bizneset P

where P.B\_ID NOT IN (Select K.DB\_ID

from DepartamentiBiznesit K

where K.DB\_ID=P.DB\_ID)



4. VIEW

--Krijimi i VIEW per te gjetur listen e Bilancit te Studenteve te cilet kan me pak se 300 Euro ?

--

create view [get Student by Money]

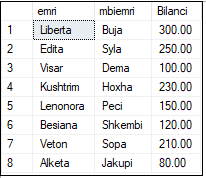
as

(

select B.emri,B.mbiemri,B.Bilanci

from Studenti B

where Bilanci <= 300)



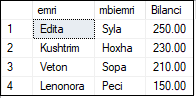
-- shfaqi Bilancin e studenteve duke e perdor VIEW -n e me heret ne mes te 100-250 euro ?

select \*

from [get Student by Money]

where Bilanci between '150' and '250'

order by Bilanci DESC



-- Te shfaqet edhe Vlera Maksimale e bilancit te studentit ( duke shfrytzuar VIEW )?

select max(Bilanci) as 'Vlera Maksimale'

from [get Student by Money]

