University of Prishtina

Faculty of Electrical and Computer Engineering

Kodra e Diellit, p.n.

10000 - Prishtinë, Kosova

Programi: Inxhinieri Kompjuterike

Baza e të dhënave

PROJEKTI: **BAZA E TË DHËNAVE PËR MENAXHIMIN E BIBLIOTEKËS**

Mentorët:

Emri	Department	Location
Prof. Dr. Lule Ahmedi	Komp.	FIEK
Msc. Dalina Vranovci	Komp.	FIEK

Menaxhimi i dokumentit

Personat e autorizuar për të bërë ndryshime:

Endi Korca	Komp.	FIEK
Fatlum Fazliu	Komp.	FIEK
Yllka Bicaj	Komp.	FIEK
Yllka Shala	Komp.	FIEK

Dokumenti u krijua me veglat:

Microsoft Word for Windows
DES

Permbajtja

1. Skema Relacionale

<u>Underline</u> - Primary Keys

Bold - Foreign Keys

Lexuesi(<u>lid:integer</u>, lemri:string, lmbiemri:string, lemri_prindit:string, lgjinia: enum, ldt_lindjes:date, lrruga:string, lqyteti:string, lshteti:string,ltel_mob:string, ltel_fix:string, lkodi_postal:string, lemail:string, lprofesioni:string)

Detajet(**<u>lid: integer</u>**, lvitiregjistrimit: integer, ldataregjistrimit: string, lcmimi:int, lpunetori_qe_ka_regjistruar:string, lanetarsim_aktiv:bool, lkushtezime:string)

Punetori(<u>pid:integer</u>, pemri:string, pmbiemri:string, ptitulli:string, prruga:string, pqyteti:string, pshteti:string,ptel_mob:string, ptel_fix:string, pkodi_postal:string, pemail:string, paga:string)

Librat(**<u>lbid:integer</u>,** lbemri:string, lbautori:string, lbzhanri:string, lbnr_kopjeve:int, lbdata_pranimit:date, lbpunetori_regjistruar:string)

Huazimi(**<u>lid:integer</u>, <u>lbid:integer</u>**, hdataehuazimit:date, hmax_datakthimit:date, hdatakthimit:date, hpunetori_regjistruar:string, hverejtje:string)

Arkiva(<u>aid: integer</u>, **lbid: integer**, **lid: integer**)

Libratdemtuar(<u>ldid: integer</u>, ldverejtje: string, lddata:date, ldpunetori:string)

Kredencialet(<u>kid:integer</u>, email: string, username:string, password:integer, **lid:integer**)

Kredencialetp(<u>kpid:integer</u>, email: string, username:string, password:integer, **pid:integer**)

Komentet(<u>cid:integer</u>, data_ komentit:date, koha_komentit: time, <u>përmbajtja:string</u>, **lbid:integer**, **lid:integer**)

Tabelat

Lexuesi

Lexuesi(<u>lid:integer</u>, lemri:string, lmbiemri:string, lemri_prindit:string, lgjinia: enum, ldt_lindjes:date, lrruga:string, lqyteti:string, lshteti:string,ltel_mob:string, ltel_fix:string, lkodi_postal:string, lemail:string, lprofesioni:string)

ID	Emri	Mbiemri	Gjinia	Data lindjes	Emri i Prindit	Rruga	Qyteti	Shteti	Tel. Mobil	Tel. Fix	Kodi Postal	Email-i	Profesioni
01	Albin	Tmava	M	20.07.1997	Agim	Mbreti Bardhyl	Peje	Kosove	+38349364030	038237423	30000	albin_tmava@gmail.com	Student
02	Laura	Gashi	F	22.02.1997	Ismet	Sefedin Maxhuni	Vushtrri	Kosove	+38344364560	038934578	40000	lauragashi1@hotmail.com	Student
03	Alba	Krasniqi	F	08.05.1997	Afrim	Adem Jashari	Mitrovice	Kosove	+38349573293	038960879	43000	alba.krasniqi@yahoo.com	Konsulent
04	Zbulim	Zekaj	M	04.09.1997	Gezim	28 Nentori	Tirane	Shqiperi	+38349483272	038879768	10000	zbulimzekaj@gmail.com	Zhvillues i Software-it
05	Rina	Hajra	F	23.07.1996	Valon	Paqja	Prizeren	Kosove	+38344382829	038769077	20000	rinahajra@live.com	Piktore
06	Dea	Loxha	F	14.05.1985	Bedri	Ahmet Konica	Prishtine	Kosove	+38344637893	038690787	10000	dealoxha@gmail.com	Gjykatese
07	Leon	Shala	M	19.11.1997	Arsim	Jakov Xoxa	Prishtine	Kosove	+38349343235	038356689	10000	leon_sh@live.com	Student
08	Art	Krasniqi	M	24.12.1995	Emin	Lidhja e Prizrenit	Shkoder	Shqiperi	+38344849924	038588966	4000	art.k@live.com	Ushtar
09	Ard	Vokshi	M	21.10.1972	Gani	Malush Kosova	Prishtine	Kosove	+38349329580	038783467	10000	ard.vokshi1@hotmail.com	Doktor
10	Bekim	Pllana	M	09.08.1996	Arben	Nene Tereza	Peje	Kosove	+38349282474	038769078	30000	b_pllana@msn.com	Infermier

11	Brike na	Dev olli	F	08.04. 1997	Albin	Haxhi Zeka	Berat	Shqiper i	+3834924 7862	038087 087	6000	devolli _brike na@g mail.c om	Keng etare
12	Altin	Tem aj	M	09.03. 1992	Lumir	Astrit Dehari	Mitrovic e	Kosove	+3834476 8794	038789 668	40000	altinte maj9@ gmail. com	Inxhin ier i meka nikes
13	Jet mira	Alija	F	11.01. 1996	Mergim	Ndue Pelleshi	Prishtine	Kosove	+3834965 5497	038087 998	10000	jetmir a.aliaj @live. com	I papu ne
14	Teut a	Sfish ta	F	30.09. 1984	Sami	Azem Bejta	Mitrovic e	Kosove	+3834497 3358	038698 079	30000	teuta.s fisha@ msn.c om	Profe sores he
15	Ekre m	Mur ati	M	12.04. 1987	Bashkim	Xhon Buja	Vushtrri	Shqiper i	+3834487 6448	038654 754	90000	ekrem _mura ti@pro tonma il.com	Kam arier

Detajet e lexuesit

Detajet(**lid: integer**, lvitiregjistrimit: integer, ldataregjistrimit: string, lcmimi:int, lpunetori_qe_ka_regjistruar:string, lanetarsim_aktiv:bool, lkushtezime:string)

ID e shfrytezuesit	Viti regjistrimit	Data e regjistrimit	Cmimi per regjistrim	Punetori qe e ka regjistruar	A ka lex. anetarsim	Kushtezime mbi anetarsimin
01	2018	21 Maj	5€	Afrim Gashi	True	Perfundon me 31.12.2021
02	2019	3 Qershor	5€	Gresa Haliti	True	Perfundon me 31.12.2022
03	2019	11 Janar	5€	Gresa Haliti	False	Perfundon me 31.12.2020
04	2015	15 Janar	5€	Afrim Gashi	True	Perfundon me 31.12.2021
05	2014	14 Gusht	5€	Dea Rexha	False	Perfundon me 31.12.2020
06	2017	1 Mars	5€	Afrim Gashi	True	Perfundon me 31.12.2023
07	2018	29 Shtator	5€	Gresa Haliti	True	Perfundon me 31.12.2022
08	2021	12 Dhjetor	10€	Gresa Haliti	True	Perfundon me 31.12.2022
09	2020	26 Nenor	10€	Dea Rexha	False	Perfundon me 31.12.2020
10	2020	2 Janar	10€	Dea Rexha	False	Perfundon me 31.12.2020
11	2016	4 Korrik	5€	Afrim Gashi	True	Perfundon me 31.12.2021
12	2018	19 Shkurt	5€	Afrim Gashi	False	Perfundon me 31.12.2019
13	2021	5 Tetor	10€	Gresa Haliti	True	Perfundon me 31.12.2023
14	2014	20 Prill	5€	Dea Rexha	False	Perfundon me 31.12.2018
15	2021	8 Korrik	10€	Gresa Haliti	True	Perfundon me 31.12.2022

Punëtorët

Punetori(pid:integer, pemri:string, pmbiemri:string, ptitulli:string, prruga:string, pqyteti:string, pshteti:string, ptel_mob:string, ptel_fix:string, pkodi_postal:string, pemail:string, paga:string)

ID	Emri	Mbiemri	Titulli	Rruga	Qyteti	Shteti	Tel. Mobil	Tel. Fix	Kodi Postal	Email-i	Paga
01	Dea	Rexha	Anetarsime	Mbreti Bardhyl	Peje	Kosove	+38349364030	038237423	30000	dea_rexha@gmail.com	450€
02	Gresa	Haliti	Anetarsime	Sefedin Maxhuni	Vushtrri	Kosove	+38344364560	038934578	40000	gresahaliti@hotmail.com	450€
03	Afrim	Gashi	Anetarsime	Adem Jashari	Mitrovice	Kosove	+38349573293	038960879	43000	afrimgashi1@yahoo.com	450€
04	Rina	Loxha	IT Support	28 Nentori	Tirane	Shqiperi	+38349483272	038879768	10000	rina.loxha@gmail.com	550€
05	Bedri	Hasani	IT Support	Paqja	Prizeren	Kosove	+38344382829	038769077	20000	bedrihasani@live.com	550€
06	Ahmet	Pllana	Transport	Ahmet Konica	Prishtine	Kosove	+38344637893	038690787	10000	ahmet.p@gmail.com	300€
07	Ali	Temaj	Transport	Jakov Xoxa	Prishtine	Kosove	+38349343235	038356689	10000	ali_temaj@live.com	300€
08	Kushtrim	Hoti	Hulumtimi i tregut	Lidhja e Prizrenit	Shkoder	Shqiperi	+38344849924	038588966	4000	kushtrimhoti@live.com	500€
09	Albion	Aliu	Mirembajtjen e uebfaqes	Malush Kosova	Prishtine	Kosove	+38349329580	038783467	10000	aliu.albion@hotmail.com	600€
10	Dion	Voca	Mirembajtjen e uebfaqes	Nene Tereza	Peje	Kosove	+38349282474	038769078	30000	d_voca@msn.com	600€
11	Ermal	Kadriu	Hulumtimi I tregut	Haxhi Zeka	Berat	Shqiperi	+38349247862	038087087	6000	ermalkadriu8@gmail.com	500€

Librat

Librat(**lbid:integer,** lbemri:string, lbautori:string, lbzhanri:string, lbnr_kopjeve:int, lbdata_pranimit:date, lbpunetori_regjistruar:string)

ID	Titulli i librit	Autori	Zhanri	Nr. i kopjeve	Data e pranimit	Punetori qe ka regjistruar
1221	"Harry Potter"	J.K.Rowling	Mister	15	21.10.2021	Afrim Gashi
1222	"Lulja e Kujtimit"	Foqjon Postoli	Drame	10	21.10.2021	Afrim Gashi
1223	"Sikur te isha djale"	Haki Stermilli	Histori	5	14.05.2020	Gresa Haliti
1224	"The Toll"	Neal Shusterman	Horror	6	21.10.2021	Afrim Gashi
1225	"Ali Cross"	James Patterson	Krim	5	16.08.2019	Dea Rexha
1226	"Sister First"	Jenna Bush Hager	Drame	5	21.10.2021	Afrim Gashi
1227	"Wrecking Ball"	Jeff Kinney	Ditar	8	7.02.2018	Dea Rexha
1228	Winterwood	Shea Ernshaw	Fantazi	10	5.01.2020	Gresa Haliti
1229	"I have no secrets"	Penny Joelson	Histori	4	21.10.2021	Afrim Gashi
1230	Blood Heir	Amelie Wen Zhao	Thriller	2	4.03.2019	Dea Rexha
1231	Epoca	Ivy Claire	Fantashkence	12	18.07.2020	Dea Rexha
1232	Shine	J.J.Grabenstein	Shkence	7	21.10.2021	Afrim Gashi
1233	"My Book With No Pictures"	B.J.Novak	Dokumentar	14	19.03.2017	Gresa Haliti
1234	"Plaku dhe Deti"	Ernest Hemingway	Fantazi	13	19.06.2020	Gresa Haliti
1235	"Sam Houston"	Brian Kilmeade	Dokumentar	15	11.05.2021	Dea Rexha

Huazimi i librit

Huazimi(**lid:integer**, **lbid:integer**, hdataehuazimit:date, hmax_datakthimit:date, hdatakthimit:date, hpunetori_regjistruar:string, hverejtje:string)

ID e lexuesit	Id e librit	Data e huazimit	Max. data e kthimit	Data e kthimit	Punetori qe ka regjistruar	Verejtje
1	1221	06.10.2021	21.10.2021	15.10.2021	Afrim Gashi	Nuk ka
2	1222	05.10.2021	20.10.2021	16.10.2021	Afrim Gashi	Nuk ka
3	1223	30.04.2021	14.05.2020	13.05.2020	Gresa Haliti	Nuk ka
4	1224	03.10.2021	18.10.2021	15.10.2021	Afrim Gashi	Nuk ka
5	1225	01.08.2019	16.08.2019	19.08.2019	Dea Rexha	3 dite vonese
6	1227	15.10.2021	30.10.2021	29.10.2021	Afrim Gashi	Nuk ka
7	1226	24.01.2018	7.02.2018	01.02.2018	Dea Rexha	Nuk ka
8	1235	21.12.2019	5.01.2020	03.01.2020	Gresa Haliti	Nuk ka
9	1234	04.10.2021	19.10.2021	19.10.2021	Afrim Gashi	Nuk ka
10	1230	21.02.2019	4.03.2019	2.03.2019	Dea Rexha	Nuk ka
11	1229	03.07.2020	18.07.2020	7.07.2020	Dea Rexha	Nuk ka
12	1228	06.10.2021	21.10.2021	20.10.2021	Afrim Gashi	Nuk ka

Arkiva

Arkiva(<u>aid: integer</u>, **lbid: integer**, **lid: integer**)

ID e arkives	ID e librit	ID e lexuesit
1	1221	05
2	1222	07
3	1223	05
4	1224	02
5	1225	03
6	1226	07
7	1227	04
8	1228	11
9	1229	05
10	1230	03

Librat e demtuar

Libratdemtuar(<u>ldid: integer</u>, ldverejtje: string, lddata:string, ldpunetori:string)

ID e librit	Titulli i librit	Verejtje	Punetori
1236	"Si te behesh i lumtur"	Pakujdesia gjate leximit	Dea Rexha
1237	"Ne te tre"	Libri ka qene afer zjarrit	Dea Rexha
1238	"Romeo dhe Juliet"	Demtim i mehershem	Gresa Haliti
1239	"Kur fryma behet ajer"	Pakujdesia	Gresa Haliti
1240	"Gremina e Dashurise"	Pakujdesia	Afrim Gashi
1241	"Nje lindje e veshtire"	Perdorimi i mjeteve te gabuara	Gresa Haliti
1242	"Foleja tragjike e dashurise"	Demtimi nga kafshet shtepiake	Afrim Gashi
1243	"Nje histori e shkurter e kohes"	Demtimi nga kafshet shtepiake	Dea Rexha
1244	"Sapiens"	Pakujdesia	Dea Rexha
1245	"Te menduarit shpejt dhe ngadale"	Demtim i mehershem	Afrim Gashi

Kredencialet e lexuesve per çasje ne uebfaqe

Kredencialet(<u>kid:integer</u>, email: string, username:string, password:integer, **lid:integer**)

ID e shfrytezuesit	Email	Username	Password
01	at@gmail.com	albintmava	albintmava1234
02	lg@gmail.com	Lauragashi	Lauragashi1234
03	ak@gmail.com	Albakrasniqi	Albakrasniqi1234
04	zz@hotmail.com	Zbulimzekaj	Zbulimzekaj1234
05	rh@hotmail.com	Rinahajra	Rinahajra1234
06	dl@gmail.com	Deahoxha	Deahoxha1234
07	lsh@hotmail.com	Leonshala	Leonshala1234
08	Akr@gmail.com	Artkrasniqi	Artkrasniqi1234
09	av@gmail.com	Ardvokshi	Ardvokshi1234
10	bp@gmail.com	Bekimpllana	Bekimpllana1234
11	bd@gatmail.com	Brikenadevolli	Brikenadevolli1234
12	at@gmail.com	Altintemaj	Altintemaj1234
13	ja@gmail.com	Jetmiraalija	Jetmiraalija1234
14	ts@gmail.com	Teutasfishta	Teutasfishta1234
15	em@hotmail.com	Ekremmurati	Ekremmurati1234

Kredencialet e punetoreve per çasje ne uebfaqe

Kredencialetp(<u>kpid:integer</u>, email: string, username:string, password:integer, **pid:integer**)

ID e shfrytezuesit	Email	Username	Password
01	afrim.g@gmail.com	afrimgashi	afrimgashi1234
02	dea.r@gmail.com	dearexha	dearexha1234
03	gresa.h@gmail.com	gresahaliti	gresahaliti1234
04	dion.v@hotmail.com	dionvoca	dionvoca1234
05	albion.a@hotmail.com	albionaliu	albionaliu1234
06	kushtrim.h@gmail.com	kushtrimhoti	kushtrimhoti1234
07	ermal.k@hotmail.com	ermalkadriu	ermalkadriu1234
08	Ahmet.p@gmail.com	ahmetpllana	artkrasniqi1234
09	ali.t@gmail.com	alitemaj	alitemaj1234
10	bedri.h@gmail.com	bedrihasani	bedrihasani1234
11	rina.l@gatmail.com	rinaloxha	rinaloxha1234

Komentet për librat ne uebfaqe

Komentet(cid:integer, data_ komentit:date, koha_komentit: time, përmbajtja:string, **lbid:integer**, **lid:integer**)

ID e Librit	Data e komentit	Koha e komentit	Permbajtja e komentit	ID e librit	ID e lexuesit
10201	11-01-2019	13:55:23	Liber fantastik	1201	07
10202	24-02-2019	23:44:32	Ka mundur me mire	1202	06
10203	29-03-2019	10:12:34	6/10, mesatar	1203	09
10204	02-04-2019	10:32:49	Me pelqeu shume	1204	05
10205	07-05-2019	12:45:44	Nje nder me te miret	1205	15
10206	13-05-2019	16:20:12	Shume i gjate!	1206	08
10207	18-06-2019	09:23:39	Stroje interesate!	1207	02
10208	21-07-2019	19:23:55	Me pelqeu!	1208	12
10209	25-08-2019	01:10:12	Mjaft i mire!	1209	13
10210	08-08-2019	13:45:48	Fantastik	1210	14
10211	15-09-2019	07:34:12	Jo aq i mire	1211	15
10212	24-10-2019	19:23:42	Perfekt	1212	04
10213	05-10-2019	16:32:11	Autor i mrekullueshem	1213	07
10214	26-11-2019	23:35:55	Shume i mire	1214	06
10215	13-12-2019	03:10:12	9/10, me pelqeu shume!	1215	09

2. Shprehjet e algjebrës relacionale.

1.Listoni te gjithe lexuesit qe vijne nga qyteti I Prishties:

$$\pi_{lid,lemri,lmbiemri}\sigma_{lqyteti} =' \text{Prishtine}' \text{Lexuesit.}$$

2.Cilet lexues (Emri dhe Mbiemri) kane huazuar te pakten dy libra gjate vitit 2020?

$\rho(R1, \sigma Huazimi.hdataehuazimit = \_.\_.2020 Huazimi)$

$\rho(R2, \sigma Huazimi.hdataehuazimit = \_.\_.2020 Huazimi)$

$\rho(Temp, \pi R1.lid = R2.lid \wedge R1.lbid \neq R2.lbid(R1 x R2))$

Lexuesi $\bowtie$ Temp

3. Listoni lexuesit te cilet e kane vonuar kthimin e librit ne afatin 15 ditesh per vitin 2020 ose 2021?

$\rho(R1, \sigma Huazimi.hdataehuazimit = \_.\_.2020 \vee Huazimi.hdataehuazimit\_.\_.2021(Huazimi))$

$\rho(R2, \sigma hdatakthimit - hdataehuazimit > 15(Huazimi))$

Lexuesi $\bowtie \pi lid(R1 \cap R2)$

4.Listoni ID-te dhe titullin e librave qe ne vitin 2019 ose 2020 jane huazuar se paku njehere kurse ne vitin 2021 asnjehere.

$\rho(R2, \pi lbid \sigma Huazimi.hdataehuazimit = \_.\_.2019 \vee Huazimi.hdataekthimit = \_.\_.2020(Huazimi))$

$$\rho(R2, \pi lbid \sigma Huazimi.hdataehuazimit = \_.\_.2021(Huazimi))$$

$$\pi lbid, lbemri(Lexuesi \bowtie (R1 - R2))$$

3. Shprehjet e logjikës Datalog.

%Lexuesi(lid,lemri,lmbiemri,lemri_prindrit,lgjinia,ldt_lindjes,lrruga,lqyteti,lshteti,ltel_mob,ltel_fix,lkodi_postal,lemail,lprofesioni)

Lexuesi(01,'Albin','Tmava','Agim','M','20.07.1997','Mbreti Bardhyl','Peje','Kosove','+38349364030','038237123','30000','albin_tmava@gmail.com','Student').

Lexuesi(02,'Laura','Gashi','Ismet','F','22.02.1997','Sefedin Maxhuni','Vushtri','Kosove','+38344364560','038934578','40000','lauragashi1@hotmail.com','Student').

Lexuesi(03,'Alba','Krasniqi','Afrim','F','08.05.1997','Adem Jashari','Mitrovice','Kosove','+38349573293','038960879','43000','alba.krasniqi@yaho.com','Konsulent').

Lexuesi(04,'Zbulim','Zekaj','Gezim','M','04.09.1997','28 Nentori','Tirane','Shqiperi','+38349483272','038879768','10000','zbulimzekaj@gmail.com','Zhvilluves i Software-it').

Lexuesi(05,'Rina','Hajra','Valon','F','23.07.1996','Paqja','Prizerene','Kosove','+38344382829','038769077','20000','rinahajra@gmail.com','Piktore').

Lexuesi(06,'Dea','Loxha','Bedri','F','14.05.1985','Ahmet Konica','Prishtine','Kosove','+38344637893','0387690787','10000','dealoxha@gmail.com','Gjykatese').

Lexuesi(07,'Leon','Shala','Arsim','M','19.11.1997','Jakov Xoxa','Prishtine','Kosove','+38349343235','038356680','10000','leon_sh@ylive.com','Student').

Lexuesi(08,'Art','Krasniqi','Emin','M','24.12.1995','Lidhja e Prizrenit','Shkoder','Shqiperi','+38344489924','038588966','40000','art.l@live.com','Ushtar').

Lexuesi(09,'Ard','Vokshi','Gani','M','21.10.1972','Malush Kosova','Prishtine','Kosove','+38349329580','038783467','10000','ard.vokshi1@hotmail.com','Doktor').

Lexuesi(10,'Bekim','Pllana','Arben','M','09.08.1996','Nena Tereze','Peje','Kosove','+38349282474','038769078','30000','b_pllana@msn.com','Infermier').

Lexuesi(11,'Brikena','Devolli','Albin','F','08.04.1997','Haxhi Zeka','Berat','Shqiperi','+38349247862','038087087','6000','devolli_brikena@gmail.com','Kengtare').

Lexuesi(12,'Altin','Temaj','Lumir','M','09.03.1992','Astrit Dehari','Mitrovice','Kosove','+38344768794','038789668','40000','altintemaj9@gmail.com@','In xhinier i mekanikes').

Lexuesi(13,'Jetmira','Aliaj','Mergim','F','11.01.1996','Ndue Pelleshi','Prishtine','Kosove','+38349655497','038087998','10000','jetmira.aliaj@live.com','I pa pune').

Lexuesi(14,'Teuta','Sfishta','Sami','F','30.09.1984','Aze, Bejta','Mitrovice','Kosove','+383444973358','038698079','30000','teuta.sfishtamsn.com','Profes oresh').

Lexuesi(15,'Ekrem','Murati','Bashkim','M','12.04.1987','Xhon Buja','Vushtri','Shqiperi','+38344876448','038654754','90000','ekrem_murati@protonmail.com','Kamarier').

%Detajet(Iid, Ivitiregjistrimit, Idataregjistrimit, Icmimi, Ipunetori_qe_ka_regjistruar, Ianetarsim_aktiv, Ikushtezime)

Detajet(01,'2018','21 Maj',5€,'Afrim Gashi','True','Perfundon me 31.12.2021')

Detajet(02,'2019','3 Qershor',5€,'Gresa Haliti','True','Perfundon me 31.12.2022').

Detajet(03,'2019','11 Janar',5€,'Gresa Haliti','False','Perfundon me 31.12.2020').

Detajet(04,'2015','15 Janar',5€,'Afrim Gashi','True','Perfundon me 31.12.2021').

Detajet(05,'2014','14 Gusht',5€,'Dea Rexha','False','Perfundon me 31.12.2020').

Detajet(06,'2017','1 Mars',5€,'Afrim Gashi','True','Perfundon me 31.12.2023').

Detajet(07,'2018','29 Shtator',5€,'Gresa Haliti','True','Perfundon me 31.12.2022').

Detajet(08,'2021','12 Dhjetor',10€,'Gresa Haliti','True','Perfundon me 31.12.2022').

Detajet(09,'2020','26 Nentor',10€,'Dea Rexha','False','Perfundon me 31.12.2020').

Detajet(10,'2020','2 Janar',10€,'Dea Rexha','False','Perfundon me 31.12.2020').

Detajet(11,'2016','4 Korrik',5€,'Afrim Gashi','True','Perfundon me 31.12.2021').

Detajet(12,'2018','19 Shkurt',5€,'Afrim Gashi','False','Perfundon me 31.12.2019').

Detajet(13,'2021','5 Tetor',10€,'Gresa Haliti','True','Perfundon me 31.12.2023').

Detajet(14,'2014','20 Prill',5€,'Dea Rexha','False','Perfundon me 31.12.2018').

Detajet(15,'2021','8 Korrik',10€,'Gresa Haliti','True','Perfundon me 31.12.2022').

%Punetori(pid, pemri, pmbiemri, ptitulli ,prruga, pqyteti, pshteti,ptel_mob, ptel_fix, pkodi_postal, pemail, paga)

Punetori(01,'Dea','Rexha','Anetarsime','Mbreti Bardhyl','Peje','Kosove','+38349364030','038237423','30000','dea_rexha@gmail.com','450€').

Punetori(02,'Gresa','Haliti','Anetarsime','Sefedin Maxhuni','Vushtrri','Kosove','+38344364560','038934578','40000','gresahaliti@hotmail.com','450€').

Punetori(03,'Afrim','Gashi','Anetarsime','Adem Jashari','Mitrovice','Kosove','+38349573293','038960879','43000','afrimgashi1@yahoo.com','450€').

Punetori(04,'Rina','Loxha','IT Support','28 Nentori','Tirane','Shqiperi','+38349483272','038879768','10000','rina.loxha@gmail.com',550€).

Punetori(05,'Bedri','Hasani','IT Support','Paqja','Prizeren','Kosove','+38344382829','038769077','20000','bedrihasani@live.com','550€').

Punetori(06 ,'Ahmet','Pllana','Transport','Ahmet Konica','Prishtine','Kosove','+38344637893','038690787','10000','ahmet.p@gmail.com','300€').

Punetori(07 ,'Ali','Temaj','Transport','Jakov Xoxa','Prishtine','Kosove','+38349343235','038356689','10000','ali_temaj@live.com','300€').

Punetori(08,'Kushtrim','Hoti','Hulumtimi i tregut','Lidhja e Prizrenit','Shkoder','Shqiperi','+38344849924','038588966','4000','kushtrimhoti@live.com','500€').

Punetori(09,'Albion','Aliu','Mirembajtjen e uebfaqes','Malush Kosova','Prishtine','Kosove','+38349329580','038783467','10000','aliu.albion@hotmail.com','600€').

Punetori(10,'Dion','Voca','Mirembajtjen e uebfaqes','Nene Tereza','Peje','Kosove','+38349282474','038769078','30000','d_voca@msn.com','600€').

Punetori(11,'Ermal','Kadriu','Hulumtimi I tregut','Haxhi Zeka','Berat','Shqiperi','+38349247862','038087087','6000','ermalkadriu8@gmail.com','500€')

%Librat(lbid,lbemri,lbautori,lbzhanri,lbnr_kopjeve,lbdata_pranimit,lbpunetori_regjistruar)

Librat(1221,'''Harry Potter''','J.K.Rowling Mister',15,'21.10.2021','Afrim Gashi').

Librat(1222,"'Lulja e Kujtimit'",'Foqjon Postoli','Drame',10,'21.10.2021','Afrim Gashi').

Librat(1223,"'Sikur te isha djale'",'Haki Stermilli','Histori',5,'14.05.2020','Gresa Haliti').

Librat(1224,"'The Toll'",'Neal Shusterman','Horror',6,'21.10.2021','Afrim Gashi').

Librat(1225,"'Ali Cross'",'James Patterson','Krim',5,'16.08.2019','Dea Rexha').

Librat(1226,"'Sister First'",'Jenna Bush Hager','Drame',5,'21.10.2021','Afrim Gashi').

Librat1227,"'Wrecking Ball'",'Jeff Kinney','Ditar',8,'7.02.2018','Dea Rexha').

Librat(1228,'Winterwood','Shea Ernshaw','Fantazi',10,'5.01.2020','Gresa Haliti').

Librat(1229,"'I have no secrets'",'Penny Joelson','Histori',4,'21.10.2021','Afrim Gashi').

Librat(1230,'Blood Heir','Amelie Wen Zhao','Thriller',2,'4.03.2019','Dea Rexha').

Librat(1231,'Epoca','Ivy Claire','Fantashkence',12,'18.07.2020','Dea Rexha').

Librat(1232,'Shine','J.J.Grabenstein','Shkence',7,'21.10.2021','Afrim Gashi').

Librat(1233,"'My Book With No Pictures'",'B.J.Novak','Dokumentar',14,'19.03.2017','Gresa Haliti').

Librat(1234,"'Plaku dhe Deti'",'Ernest Hemingway','Fantazi',13,'19.06.2020','Gresa Haliti').

Librat(1235,"'Sam Houston'",'Brian Kilmeade','Dokumentar',15,'11.05.2021','Dea Rexha').

%Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit, hdatakthimit, hpunetori_regjistruar, hverejtje)

Huazimi(1,1221,'06.10.2021','21.10.2021','15.10.2021','Afrim Gashi','Nuk ka').

Huazimi(2,1222,'05.10.2021','20.10.2021','16.10.2021','Afrim Gashi','Nuk ka').

Huazimi(3,1223,'30.04.2021','14.05.2020','13.05.2020','Gresa Haliti','Nuk ka').

Huazimi(4,1224,'03.10.2021','18.10.2021','15.10.2021','Afrim Gashi','Nuk ka').

Huazimi(5,1225,'01.08.2019','16.08.2019','19.08.2019',Dea Rexha,'3 dite vonese').

Huazimi(6,1227,'15.10.2021','30.10.2021','29.10.2021','Afrim Gashi','Nuk ka').

Huazimi(7,1226,'24.01.2018','07.02.2018','01.02.2018','Dea Rexha','Nuk ka').

Huazimi(8,1235,'21.12.2019','05.01.2020','03.01.2020','Gresa Haliti','Nuk ka').

Huazimi(9,1234,'04.10.2021','19.10.2021','19.10.2021','Afrim Gashi','Nuk ka').

Huazimi(10,1230,'21.02.2019','4.03.2019','2.03.2019','Dea Rexha','Nuk ka').

Huazimi(11,1229,'03.07.2020','18.07.2020','7.07.2020','Dea Rexha','Nuk ka').

Huazimi(12,1228,'06.10.2021','21.10.2021','20.10.2021','Afrim Gashi','Nuk ka').

%Arkiva(aid, lid, sid)

Arkiva(1,'1221',05).

Arkiva(2,'1222',07).

Arkiva(3,'1223',05).

Arkiva(4,'1224',02).

Arkiva(5,'1225',03).

Arkiva(6,'1226',07).

Arkiva(7,'1227',04).

Arkiva(8,'1228',11).

Arkiva(9,'1229',05).

Arkiva(10,'1230',03).

%Libratdemtuar(ldid,ldverejtje,lddata,ldpunetori)

Libratdemtuar(1236,'"Si te behesh i lumtur"','Pakujdesia gjate leximit','Dea Rexha').

Libratdemtuar(1237,'"Ne te tre"','Libri ka qene afer zjarrit','Dea Rexha').

Libratdemtuar(1238,'"Romeo dhe Juliet"','Demtim i mehershem','Gresa Haliti').

Libratdemtuar(1239,'"Kur fryma behet ajer"','Pakujdesia','Gresa Haliti').

Libratdemtuar(1240,'"Gremina e Dashurise"','Pakujdesia','Afrim Gashi').

Libratdemtuar(1241,'"Nje lindje e veshtire"','Perdorimi i mjeteve te gabuara','Gresa Haliti').

Libratdemtuar(1242,'"Foleja tragjike e dashurise"','Demtimi nga kafshet shtepiake','Afrim Gashi').

Libratdemtuar(1243,'"Nje histori e shkurter e kohes"','Demtimi nga kafshet shtepiake','Dea Rexha').

Libratdemtuar(1244,'"Sapiens"','Pakujdesia','Dea Rexha').

Libratdemtuar(1245,'"Te menduarit shpejt dhe ngadale"','Demtim i mehershem','Afrim Gashi').

%Kredencialet(kid,email,username,password,lid)

Kredencialet(01,'at@gmail.com','albintmava',albintmava1234).

Kredencialet(02,'lg@gmail.com','Lauragashi',Lauragashi1234).

Kredencialet(03,'ak@gmail.com','Albakrasniqi',Albakrasniqi1234).

Kredencialet(04,'zz@hotmail.com','Zbulimzekaj',Zbulimzekaj1234).

Kredencialet(05,'rh@hotmail.com','Rinahajra',Rinahajra1234).

Kredencialet(06,'dl@gmail.com','Deahoxha',Deahoxha1234).

Kredencialet(07,'lsh@hotmail.com','Leonshala',Leonshala1234).

Kredencialet(08,'Akr@gmail.com','Artkrasniqi',Artkrasniqi1234).

Kredencialet(09,'av@gmail.com','Ardvokshi',Ardvokshi1234).

Kredencialet(10,'bp@gmail.com','Bekimpllana',Bekimpllana1234).

Kredencialet(11,'bd@gatmail.com','Brikenadevolli',Brikenadevolli1234).

Kredencialet(12,'at@gmail.com','Altintemaj',Altintemaj1234).

Kredencialet(13,'ja@gmail.com','Jetmiraalija',Jetmiraalija1234).

Kredencialet(14,'ts@gmail.com','Teutasfishta',Teutasfishta1234).

Kredencialet(15,'em@hotmail.com','Ekremmurati',Ekremmurati1234).

&Kredencialetp(kpid,email,username,password,pid)

Kredencialetp(01,'afrim.g@gmail.com','afrimgashi',afrimgashi1234).

Kredencialetp(02,'dea.r@gmail.com','dearexha',dearexha1234).

Kredencialetp(03,'gresa.h@gmail.com','gresahaliti',gresahaliti1234).

Kredencialetp(04,'dion.v@hotmail.com','dionvoca',dionvoca1234).

Kredencialetp(05,'albion.a@hotmail.com','albionaliu',albionaliu1234).

Kredencialetp(06,'kushtrim.h@gmail.com','kushtrimhoti',kushtrimhoti1234).

Kredencialetp(07,'ermal.k@hotmail.com','ermalkadriu',ermalkadriu1234).

Kredencialetp(08,'Ahmet.p@gmail.com','ahmetpllana',artkrasniqi1234).

Kredencialetp(09,'ali.t@gmail.com','alitemaj',alitemaj1234).

Kredencialetp(10,'bedri.h@gmail.com','bedrihasani',bedrihasani1234).

Kredencialetp(11,'rina.l@gatmail.com','rinaloxha',rinaloxha1234).

%Komentet(cid,data_ komentit,koha_komentit,përmbajtja,lbid,lid)

Komentet(10201,'11-01-2019','13:55:23','Liber fantastik',1201,07).

Komentet(10202,'24-02-2019','23:44:32','Ka mundur me mire',1202,06).

Komentet(10203,'29-03-2019','10:12:34','6/10, mesatar',1203,09).

Komentet(10204,'02-04-2019','10:32:49','Me pelqeu shume',1204,05).

Komentet(10205,'07-05-2019','12:45:44','Nje nder me te miret',1205,15).

Komentet(10206,'13-05-2019','16:20:12','Shume i gjate!',1206,08).

Komentet(10207,'18-06-2019','09:23:39','Stroje interesate!',1207,02).

Komentet(10208,'21-07-2019','19:23:55','Me pelqeu!',1208,12).

Komentet(10209,'25-08-2019','01:10:12','Mjaft i mire!',1209,13).

Komentet(10210,'08-08-2019','13:45:48','Fantastik',1210,14).

Komentet(10211,'15-09-2019','07:34:12','Jo aq i mire',1211,15).

Komentet(10212,'24-10-2019','19:23:42','Perfekt',1212,04)

Komentet(10213,'05-10-2019','16:32:11','Autor i mrekullueshem',1213,07).

Komentet(10214,'26-11-2019','23:35:55','Shume i mire',1214,06).

Komentet(10215,'13-12-2019','03:10:12','9/10, me pelqeu shume!',1215,09).

%Query1-Listoni të gjithë lexruesit që janë nga qyteti i Prishtinës.
query1(lid,lemri,lmbiemri):-
Lexuesi(lid,lemri,lmbiemri,lemri_prindrit,lgjinia,ldt_lindjes,lrruga,lqyteti,lshteti,ltel_mob,l
tel_fix,lkodi_postal,lemail,lprofesioni), lqyteti='Prishtine'.

%Query2-Cilet lexues(Emri dhe Mbiemri)kane huazuar te pakten dy libra gjate vitit 2020?
query2a(lid,lbid)-Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit, hdatakthimit,
hpunetori_regjistruar, hverejtje),hdatahuazimit=' _._.2020'

query2b(lid,lbid)-Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit, hdatakthimit,
hpunetori_regjistruar, hverejtje),hdatahuazimit=' _._.2020'

query2ab(lid1):-
query2a(lid1,lbid1),query2b(lid2,lbid2),lid1=lid2,lbid1\=lbid2.

Query2(lemri,lmbiemri)-Lexuesi(lid,lemri,lmbiemri,lemri_prindrit,lgjinia,ldt_lindjes,lrruga,
lqyteti, lshteti, ltel_mob,ltel_fix,lkodi_postal,lemail,lprofesioni), query2ab(lid1).

%Query3-Listoni lexuesit te cilet e kane vonuar kthimin e librit ne afatin 15 ditesh per vitin 2020 ose 2021?

query3a(lid,lemri,lmbiemri):- Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit,
hdatakthimit, hpunetori_regjistruar, hverejtje),hdataehuazimit='_._.2020', hverejtje='_
dite vonese'.

query3b(lid)- Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit, hdatakthimit,
hpunetori_regjistruar, hverejtje),hdataehuazimit='_._.2021', hverejte='_ me vonese'.
query3ab(lid):-query3a;query3b.

query3(lid,lemri,lmbiemri) –Lexuesi (lid,lemri,lmbiemri,lemri_prindrit,lgjinia ,ldt_lindjes,
lrruga,lqyteti,lshteti,ltel_mob,ltel_fix,lkodi_postal,lemail,lprofesioni),query3ab(lid).

%Query4-Listoni ID-te dhe titullin e librave qe ne vitin 2019 ose 2020 jane huazuar se paku njehere kurse ne vitin 2021 asnjehere.

query4a(lbid)- Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit, hdatakthimit, hpunetori_regjistruar, hverejtje),hdataehuazimit='_._.2019'.
query4b(lbid)- Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit, hdatakthimit, hpunetori_regjistruar, hverejtje),hdataehuazimit='_._.2020'.
queryab(lbid)-query4a;query4b.
query4c(lbid)- Huazimi(lid,lbid,hdataehuazimit, hmax_datakthimit, hdatakthimit, hpunetori_regjistruar, hverejtje),hdataehuazimit='_._.2021'.

query4(lbid,lemri)- Librat(lbid, lbemri, lbautori, lbzhanri, lbnr_kopjeve: lbdata_pranimit:string, lbpunetori_regjistruar),query4ab(lbid),not(query4c(lbid).