



, 2012



UNIVERSITY OF NOVI SAD • FACULTY OF TECHNICAL SCIENCES
21000 NOVI SAD, Trg Dositeja Obradovi a 6

KEY WORDS DOCUMENTATION

Accession number, ANO :	
Identification number, INO :	
Document type, DT :	Monographic publication
Type of record, TR :	Textual printed material
Contents code, CC :	Bachelor Thesis
Author, AU :	Milanka Bjelica
Mentor, MN :	Ivan Lukovi , PhD
Title, TI :	A Software Tool for a Dormitory Accommodation Support Services – A Subsystem for Registration of Students in Dormitories
Language of text, LT :	Serbian
Language of abstract, LA :	Serbian
Country of publication, CP :	Republic of Serbia
Locality of publication, LP :	Vojvodina
Publication year, PY :	2012.
Publisher, PB :	Author's reprint
Publication place, PP :	Novi Sad, Dositeja Obradovica sq. 6
Physical description, PD : <small>(chapters/pages/ref./tables/pictures/graphs/appendixes)</small>	8/34/0/61/17/0/2
Scientific field, SF :	Electrical and computer engineering
Scientific discipline, SD :	Applied computer science and informatics
Subject/Key words, S/KW :	Databases
UC	
Holding data, HD :	The Library of Faculty of Technical Sciences, Novi Sad, Serbia
Note, N :	
Abstract, AB :	In this work we present a project and the implementation of a segment of the information system for the dormitory accommodation support services. Database schema is specified and implemented under Oracle RDBMS. The application is developed using Java programming language and Eclipse SDK programming environment.
Accepted by the Scientific Board on, ASB :	
Defended on, DE :	
Defended Board, DB :	President: Sr an Popov, Assistant Professor, Ph.D.
	Member: Slavica Aleksi , Assistant, M.Sc.
	Member, Mentor: Ivan Lukovi , Full Professor, Ph.D.
	Menthor's sign



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24.09.2012.

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(BACHELOR) :

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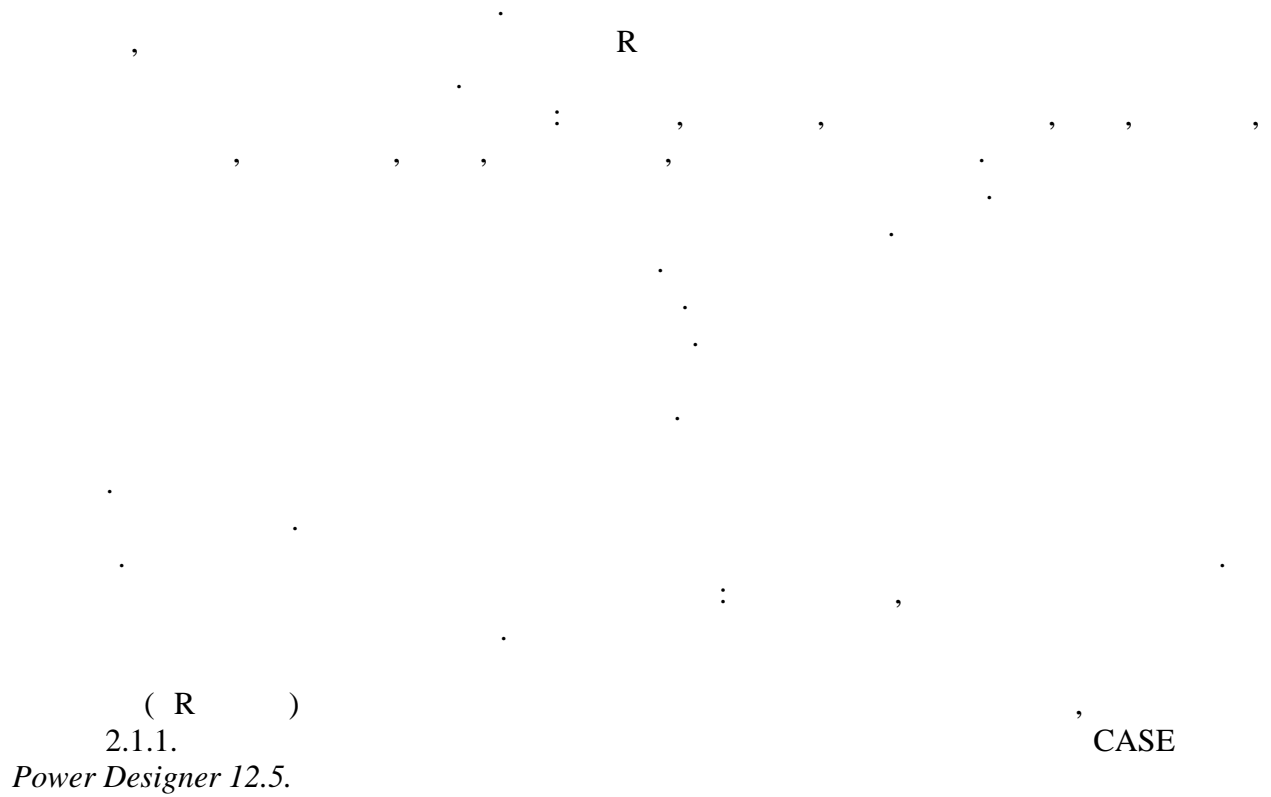
1.1 Мотивација рада

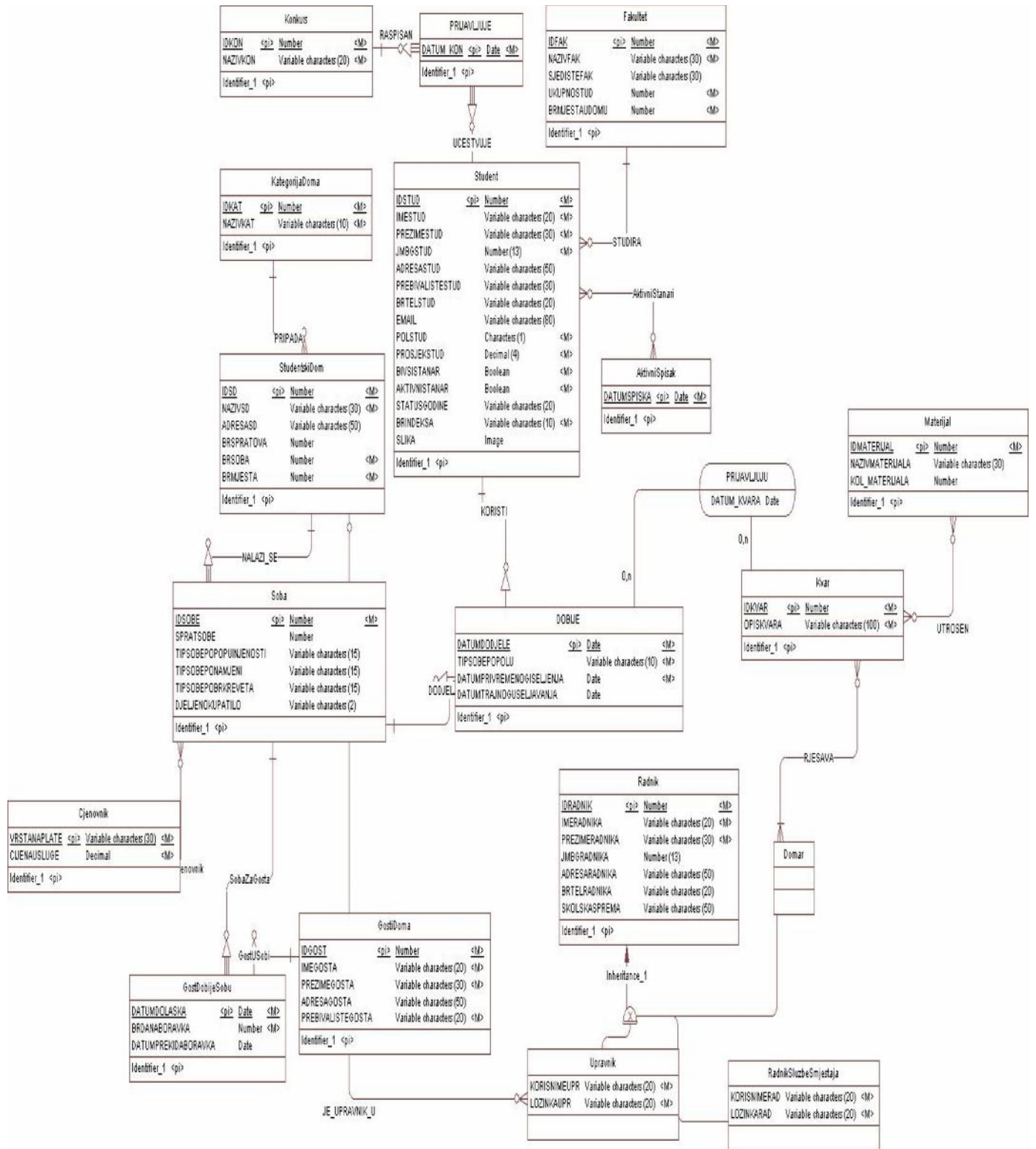
1.2 Структура рада

- ❖ — :
- ❖ ; — ;
- ❖ — ; ,
- ❖ — .

2.

2.1 Модел концептуалне шеме базе података

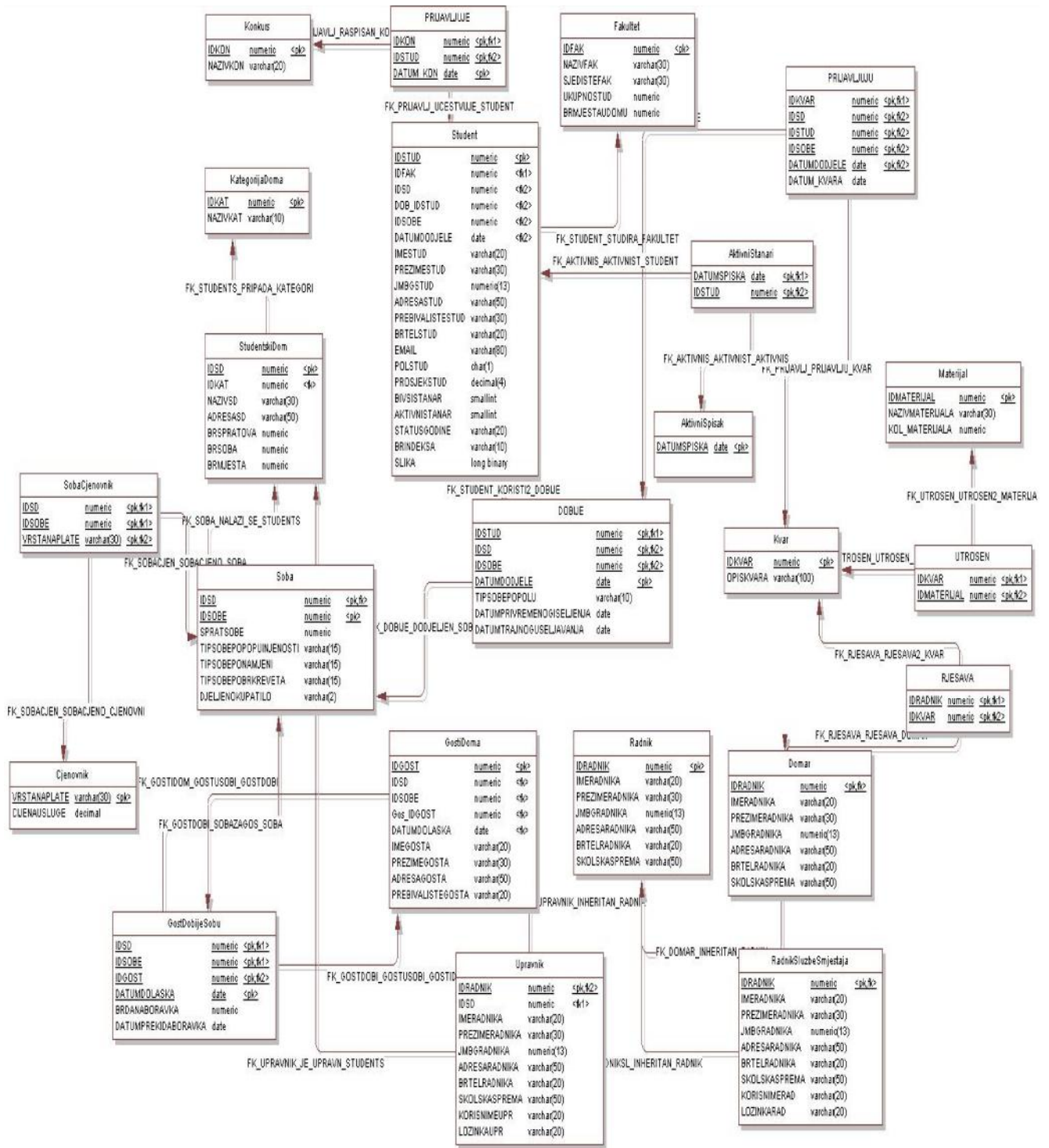




2.1.1

2.2 Модел имплементационе шеме базе података

Power Designer, *Oracle-*
Power Designer
Power Designer
Power Designer . Script
2.2.1
script



2.2.1

2.3 Опис табела у шеми базе података

a.

			Not null	
1	IDFAK	Number		
2	NAZIVFAK	Varchar2(30)		
3	SJEDISTEFAK	Varchar2(30)		
4	UKUPNOSTUD	Number		
5	BRMJESTAUDOMU	Number		

PK_FAKULTET	IDFAK
-------------	-------

			Not null	
1	IDSD	Number	e	
2	IDKAT	Number	e	
3	NAZIVSD	Varchar2(30)	e	
4	ADRESASD	Varchar2(50)	e	
5	BRSPRATOVA	Number	a	
6	BRSOBA	Number	e	
7	BRMJESTA	Number	e	

PK_STUDENTSKIDOM	IDSD
------------------	------

C			
FK_STUDENTS_PRI PADA_KATEGORI	ID		IDKAT

O

			Not null	
1	IDSD	Number	e	
2	IDSOBE	Number	e	
3	SPRATSOBE	Number		
4	TIPSOBEPOPOPUINJENOSTI	Varchar2(15)	e	
5	TIPSOBEPONAMJENI	Varchar2(15)		
6	DJELJENOKUPATILO	Varchar2(2)	e	
7	BRKREVETA	Number		

PK_SOBA	IDSD + IDSOBE

C

FK_SOBA_NALAZI_SE_STUDENTS	IDSD		IDSD

Ta

			Not null	
1	IDRADNIK	Number	e	
2	IMERADNIKA	Varchar2(20)	e	
3	PREZIMERADNIKA	Varchar2(30)		
4	JMBGRADNIKA	Number(13)	e	
5	ADRESARADNIKA	Varchar2(50)		
6	BRTELRADNIKA	Varchar2(20)		
7	SKOLSKASPREMA	Varchar2(50)		

PK_RADNIK	IDRADNIK

			Not null	
1	IDSTUD	Number	e	
2	BRINDEKSA	Varchar2(10)		
3	IDFAK	Number	e	
4	IDSD	Number		
5	IDSOBE	Number		
6	DATUMDODJELE	Date		
7	IMESTUD	Varchar2(20)	e	
8	PREZIMESTUD	Varchar2(30)		
9	JMBGSTUD	Number(13)		
10	ADRESASTUD	Varchar2(50)		
11	PREBIVALISTESTUD	Varchar(30)		
12	BRTELSTUD	Varchar(20)		
13	EMAIL	Varchar(80)		ej
14	POLSTUD	Char(1)		
15	BIVSISTANAR	Varchar2(2)		
16	AKTIVNISTANAR	Varchar2(2)		
17	STATUSGODINE	Varchar2(20)		
18	PROSJEKSTUD	Float(4,2)		
19	SLIKA	Blob		

PK_STUDENT	IDSTUD

C			
FK_STUDENT_KORISTI2_DOBIJE	IDSD, IDSOBE, DATUMDODJELE		IDSD, IDSOBE, DATUMDODJELE
FK_STUDENT_STUDIRA_FAKULTET	IDFAK		IDFAK

			Not null	
1	DATUMSPISKA	Date	e	

PK_AKTIVNISPISAK	DATUMSPISKA
------------------	-------------

			Not null	
1	IDKAT	Number	e	
2	NAZIVKAT	Varchar2(10)		

PK_KATEGORIJDOMA	IDKAT
------------------	-------

			Not null	
1	VRSTANAPLATE	Varchar2(30)	e	
2	CIJEN AUSLUGE	Number		

PK_CJENOVNIK	VRSTANAPLATE
--------------	--------------

			Not null	
1	DATUMSPISKA	Date	e	
2	IDSTUD	Number		

PK_AKTIVNISTANARI	DATUMSPISKA + IDSTUD
-------------------	----------------------

C			
FK_AKTIVNIS_AKTIVNIST_AKTIVNI	DATUMSPISKA		DATUMSPISKA
FK_AKTIVNIS_AKTIVNIST_STUDEN	IDSTUD		IDSTUD

			Not null	
1	IDSTUD	Number	e	
2	IDSD	Number	e	
3	IDSOBE	Number	e	
4	DATUMDODJELE	Date	e	
5	TIPSOBEPOPOLU	Varchar2(10)		
6	DATUMPRIVREMENOGISELJENJA	Date	e	
7	DATUMTRAJNOGUSELJAVANJA	Date		

PK_DOBIJE	IDSTUD +IDSD+ IDSOBE+ DATUMDODJELE
-----------	------------------------------------

C			
FK_DOBIJE_DODJELJEN_Soba	IDSD, IDSOBE		IDSD, IDSOBE
FK_DOBIJE_KORISTI_STUDENT	IDSTUD		IDSTUD

			Not null	
1	IDRADNIK	Number	e	

PK_DOMAR	IDRADNIK

<i>C</i>			
FK_DOMAR_INHERITAN_RADNIK	IDRADNIK		IDRADNIK

			Not null	
1	IDRADNIK	Number	e	
2	KORISNIMERAD	Varchar2(10)		
3	LOZINKARAD	Varchar2(10)		

PK_RADNIKSLUZBESMJESTAJA	IDRADNIK

<i>C</i>			
FK_RADNIKSL_INHERITAN_RADNIK	IDRADNIK		IDRADNIK

			Not null	
1	IDRADNIK	Number	e	
2	KORISNIMERAD	Varchar2(10)		
3	LOZINKARAD	Varchar2(10)		
4	IDSD	Number		

PK_UPRAVNIK	IDRADNIK
-------------	----------

C			
FK_UPRAVNIK_INHERITAN_RADNIK	IDRADNIK		IDRADNIK
FK_UPRAVNIK_JE_UPRAVN_STUDENTS	IDSD		IDSD

			Not null	
1	IDSD	Number	e	
2	IDSOBE	Number		
3	IDGOST	Number		
4	DATUMDOLASKA	Date		
5	BRDANABORAVKA	Number		
6	DATUMPREKIDABORAVKA	Number		

PK_GOSTDOBIJESOBU	IDSD+ IDSOBE+ IDGOST+ DATUMDOLASKA
-------------------	------------------------------------

C			
FK_GOSTDOBI_GOSTUSOBI_GOSTIDO	IDGOST		IDGOST
FK_GOSTDOBI_SOBAGOS_SOBA	IDSD, IDSOBE		IDSD, IDSOBE

			Not null	
1	IDGOST	Number	e	
2	IDSD	Number		
3	IDSOBE	Number		
4	DATUMDOLASKA	Date		
5	IMEGOSTA	Varchar2(20)		
6	PREZIMEGOSTA	Varchar2(30)		
7	ADRESAGOSTA	Varchar2(50)		
8	PREBIVALISTEGOSTA	Varchar2(20)		

PK_GOSTIDOMA	IDGOST

C			
FK_GOSTIDOM_GOSTUSOBI_G OSTDOBI	IDSD, IDSOBE, DATUMDOLASKA		IDSD, IDSOBE, DATUMDOLASKA

			Not null	
1	IDKON	Number	e	
2	NAZIVKON	Varchar2(20)		

PK_KONKURS	IDKON

			Not null	
1	IDKVAR	Number	e	
2	OPISKVARA	Varchar2(100)		

PK_KVAR	IDKVAR

			Not null	
1	IDKON	Number	e	
2	IDSTUD	Number		
3	DATUM_KON	Date		

PK_PRIJAVLJUJE	IDKON+ IDSTUD+DATUM_KON

C			
FK_PRIJAVLJ_RASPISAN_KONKURS	IDKON		IDKON
FK_PRIJAVLJ_UCESTVUJE_STUDENT	IDSTUD		IDSTUD

			Not null	
1	IDMATERIJAL	Number	e	
2	NAZIVMATERIJALA	Varchar2(30)		
3	KOL_MATERIJALA	Number		

PK_MATERIJAL	IDMATERIJAL

			Not null	
1	IDKVAR	Number	e	
2	IDSD	Number		
3	IDSOBE	Number		
4	IDSTUD	Number		
5	DATUMKVARA	Date		

PK_PRIJAVLJUJU	IDKVAR+IDSD+IDSOBE+IDSTUD

C			
FK_PRIJAVLJ_PRIJAVLJU_KVAR	IDKVAR		IDKVAR
FK_PRIJAVLJ_PRIJAVLJU_DOBIJE	IDSD+IDSOBE+IDSTUD		IDSD+IDSOBE+IDSTUD

			Not null	
1	IDKVAR	Number	e	
2	IDRADNIK	Number		

PK_RJESAVA	IDKVAR+IDRADNIK

C			
FK_RJESAVA_RJESAVA_DOMAR	IDRADNIK		IDRADNIK
FK_RJESAVA_RJESAVA2_KVAR	IDKVAR		IDKVAR

			Not null	
1	IDSD	Number	e	
2	IDSOBE	Number		
3	VRSTANAPLATE	Varchar2(30)		

PK_SOBACJENOVNIK	IDSD+IDSOBE+VRSTANAPLATE

C			
FK_SOBACJEN_SOBACJENO_SOBA	IDSD,IDSOBE		IDSD,IDSOBE
FK_SOBACJEN_SOBACJENO_CJENOVNI	VRSTANAPLATE		VRSTANAPLATE

			Not null	
1	IDKVAR	Number	e	
2	IDMATERIJAL	Number		

PK_UTROSEN	IDKVAR+ IDMATERIJAL

C			
FK_UTROSEN_UTROSEN_KVAR	IDKVAR		IDKVAR
FK_UTROSEN_UTROSEN2_MATERIJA	IDMATERIJAL		IDMATERIJAL

3.

3.1 0 апликацији

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excel

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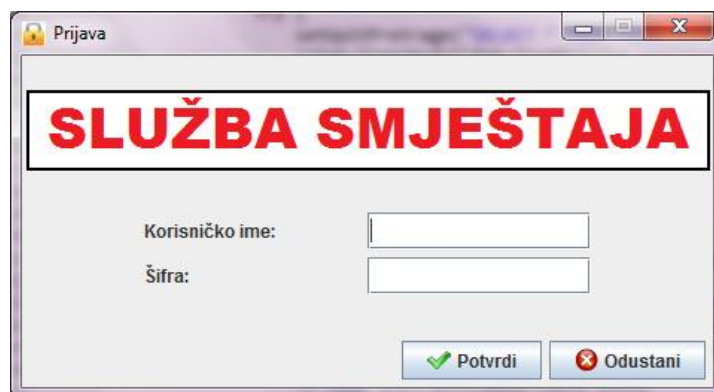
excel

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3.2 Опис рада апликације

3.2.1 Пријава на систем

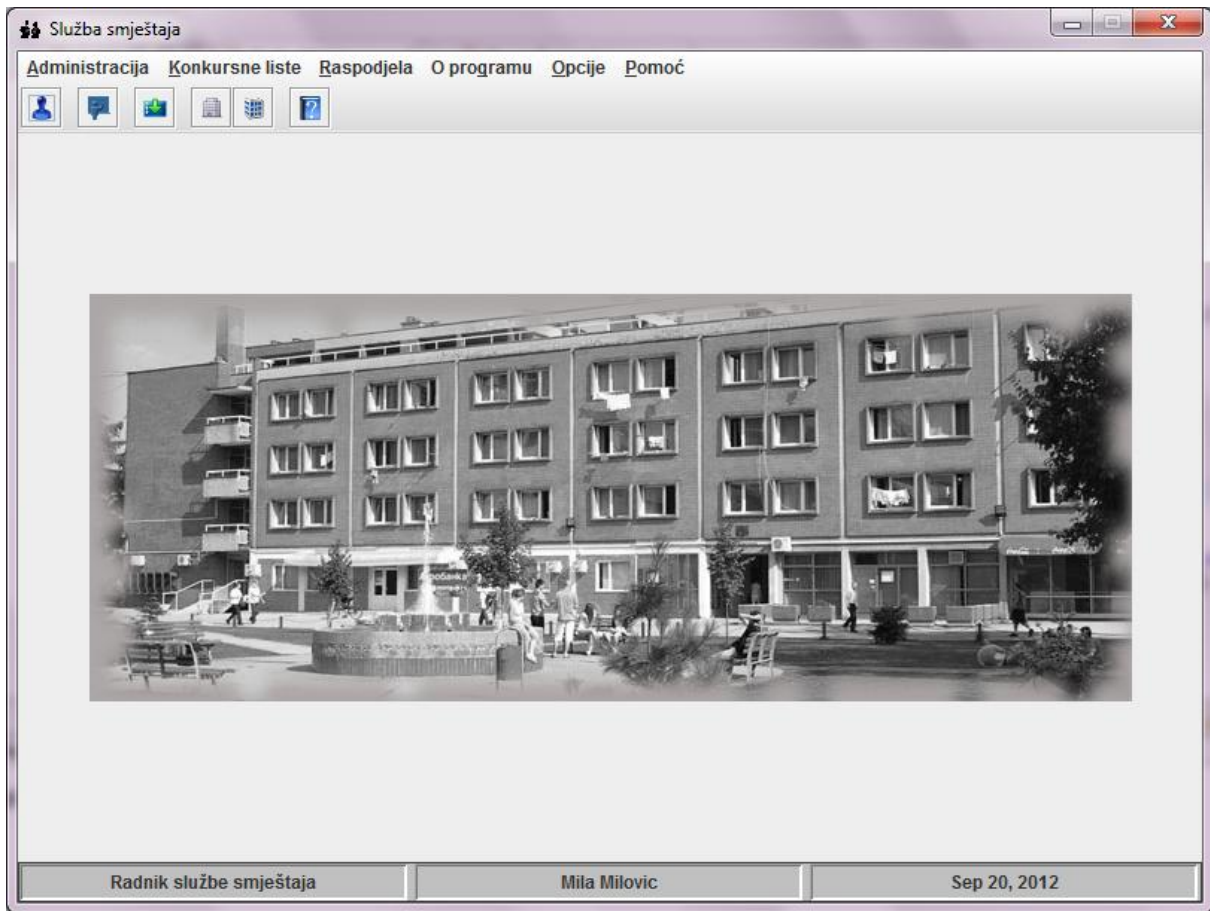
3.2.1.1.



3.2.1.1

3.2.2 Главни прозор апликације

3.2.2.1.



3.2.2.1

3.2.3 Ажурирање студената и факултета

3.2.3.1,

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Student

Fakultet FTN NOVI SAD

ID	Ime	Prezime	Jmbg	Adresa	Prebivaliste	Broj telefona	
2	Dusan	Nenadic	4099891550097	Save Kovacevica 9	Indjija,RS	0655555555	dusar
5	Maja	Vukovic	1110989155009	Maksima Gorkog ...	Gacko,BIH	064671502	majav
96	Predrag	Tadic	3005000155555	Vidovdanska 42	Gacko,BIH	0609998887	milan
101	Nenad	Bjelica	3005000543217	Milana Stanivukov...	Zrenjanin,RS	064123456...	milan
104	Goran	Markovic	3005000456789	Sime Milosevica 10	Novi Sad,RS	062765439...	milan
91	Milan	Bjelica	3005000666666	Alekse Santica 10	Gacko,BIH	0657456345	milan
99	Zeljko	Vasic	3005000765432	Cara Dusana 87	Derventa,BIH	0625675675	milan
107	Vladimir	Govedarica	3005000671211	Gogoljeva 56	Nis,RS	065234562...	milan
6	Nikola	Nikolic	1019851550098	Janka Cmelika 31	Gacko,BIH	0657777777	nikoil
1	Milanka	Bjelica	1009989155009	Nikole Tesle 93	Gacko,BIH	0656090817	milan
94	Jelka	Radovic	1111111117896	Beogradska 8	Podgorica,CG	06276546757	nikoli
105	Jelena	Kalinic	1111111117654	Njegoseva 76	Vrsac,RS	06537895674	nikoli
108	Sladjana	Knezevic	1111111234111	Kraljice Jelene 5	Loznica,RS	06573654222	nikoli
92	Nikolina	Jeremic	9871111111111	Njegoseva 6	Podgorica,CG	0667561231	nikoli
102	Jelena	Zarkovic	1111176541111	Bulevar Osloboj...	Banja Luka,...	06543567898	nikoli
100	Isidora	Vukcevic	1111651111121	Draze Mihajlovica ...	Zrenjanin,RS	0637867899	nikoli
97	Mirjana	Milicevic	6611777111111	Cara Lazara 94	Niksic,CG	0667897897	nikoli
93	Zeljka	Petrovic	1009989155789	Zmaj Jovina 7	Gacko,BIH	0656090817	milan
124	Petar	Petrovic	2005000771100	Alekse Santica 45	Gacko,BIH	065782085	milan

Milanka Bjelica Prosjek: 9.2 10/39

+ Dodaj ✎ Izmijeni 🗑 Obriši ✖ Zatvori

3.2.3.1

3.2.3.2.

13

3.2.5.

Dodavanje studenta

Osnovni podaci

Ime:


Prezime:

Jmbg:

Pol

Muški Ženski

Slika



Adresa i kontakt

Adresa: Mjesto:

Telefon: E-mail:

Informacije o studiranju

Prosjek: Godina:

Fakultet:

3.2.3.2

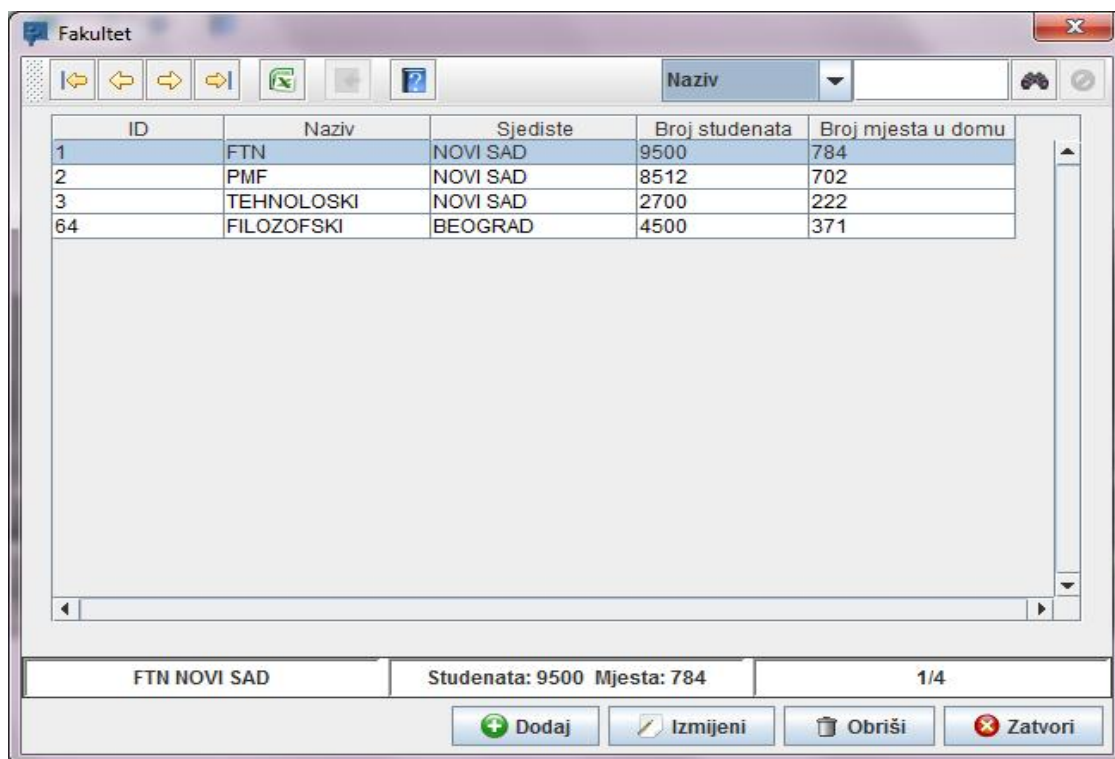
3.2.3.1.

3.2.5.

3.2.3.3,

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3.2.6.



3.2.3.3

3.2.4 Унос студената из excel фајлова и чување студената у excel фајловима

excel

excel

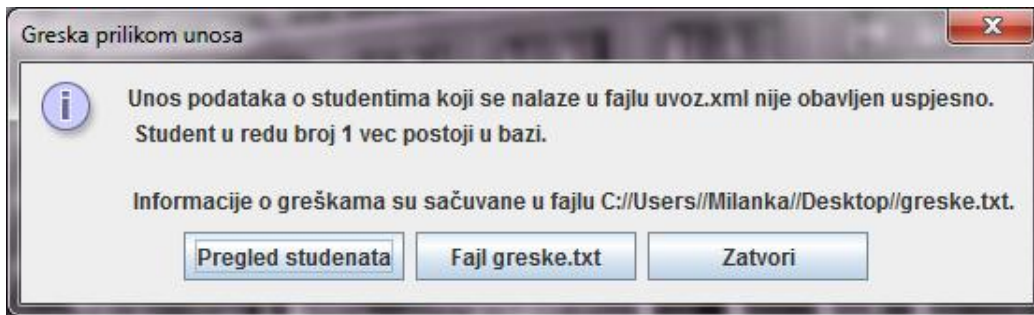
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Open

3.2.4.1.

13

6-10,



3.2.4.1

excel

excel

excel

3.2.3.1 3.2.3.3,

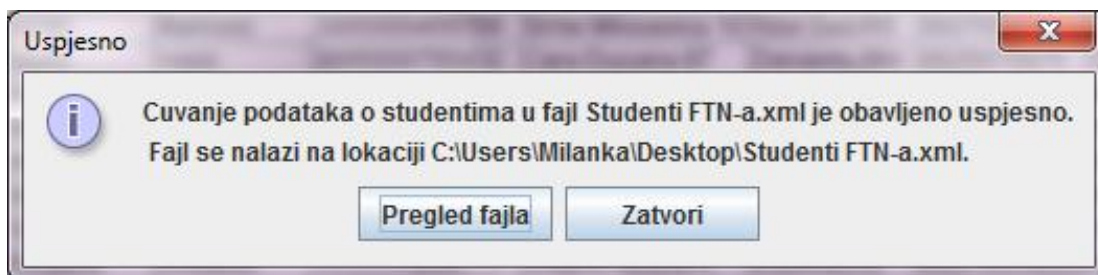
Save.

3.2.4.2.

excel

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3.2.4.3.



3.2.4.2

excel

1	IMESTUD	PREZIMESTUJMBGSTUD	ADRESASTUD	PREBIVALISTESTUI	BRTLESTUD	EMAIL	POLSTUD	PROSJEKS	STATUSGCDINE	
2	Zeljka	Petrovic	100989155789	Zmaj Jovina 7	Gacko, BIH	0656090817	milankabjelica@yahoo.com	z	9.13	IV godina
3	Jelka	Rodovic	1111111117856	Beogradska 8	Podgorica, CG	06276546757	nikolinajercemic@yahoo.com	z	9.2	IV godina
4	Nemanja	Milosevic	3005000111345	Narodnog fronta 56	Kraljevo, RS	0645675675	milanbjelica@yahoo.com	m	6.8	I godina
5	Milan	Bjelica	3005000656656	Alekse Santica 10	Gacko, BIH	0657455345	milanbjelica@yahoo.com	m	9.8	I godina
6	Nikolina	Jeremic	2871111111111	Njgoseva 6	Podgorica, CG	0667561231	nikolinajeremic@yahoo.com	z	9.2	IV godina
7	Miljana	Milosevic	5611777111111	Cara Duseva 94	Niksic, CG	0667897897	nikolinajeremic@yahoo.com	z	9.2	IV godina
8	Goran	Markovic	3005000456789	Sime Milosevica 10	Novi Sad, RS	06276546757	milanbjelica@yahoo.com	m	9.8	I godina
9	Zeljko	Vasic	3005000755432	Cara Duseva 37	Derвента, BIH	0625675675	milanbjelica@yahoo.com	m	9.8	I godina
10	Isidora	Vukovic	1111651111111	Draze Mihajlovica 34	Zrenjanin, RS	0637867895	nikolinajeremic@yahoo.com	z	9.2	IV godina
11	Nenad	Bjelica	3005000543217	Milana Stankovicica 45	Zrenjanin, RS	064123456252	milanbjelica@yahoo.com	m	9.8	I godina
12	Jelena	Zarkovic	1111176541111	Bulevar Oslobođenja 107	Barja Luka, BIH	06543507858	nikolinajeremic@yahoo.com	z	9.2	IV godina
13	Jelena	Kalinic	1111111117654	Njgoseva 76	Vrsac, RS	0653785674	nikolinajeremic@yahoo.com	z	9.2	IV godina
14	Vladimir	Govcovic	3005000671211	Gogoljeva 56	Nis, RS	065234562782	milanbjelica@yahoo.com	m	9.8	I godina
15	Sladjana	Knezevic	1111111794111	Kraljice Jelene 5	Izmitica, RS	06573654277	nikolinajeremic@yahoo.com	z	9.2	IV godina
16	Petar	Petrovic	3005000111139	Cvecarska 1a	Valjevo, RS	06594529876	milanbjelica@yahoo.com	m	9	I godina
17	Milanka	Djelica	1009909155009	Nikole Tesle 93	Gacko, BIH	0656090817	milankabjelica@yahoo.com	z	9.2	IV godina
18	Dusan	Nemanjic	4099891550057	Sauk Kraljevice 9	Inkljija, RS	0655555555	dusanmendacic@yahoo.com	m	10	IV godina
19	Iva	Iasovac	220899155789	Kraljice Jelene 9	Trebilje, BIH	06554356476	teatasovac@yahoo.com	z	8.45	IV godina
20	Irena	Vujicic	1400989155009	Danila Kisa 29	Derвента, BIH	066066066	irenavujicic@yahoo.com	z	8.36	III godina
21	Preradrag	Tadic	3005000155555	Vidovdanska 42	Gacko, BIH	0606998887	milanbjelica@yahoo.com	m	9.8	I godina
22	Deni	Vidovic	4537654557856	Poljara Androsa 402	Sremska Mitrovica	623452342	denividovic@yahoo.com	m	8	IV godina
23	Nikola	Nikolic	1019851550058	Janka Smelika 31	Gacko, BIH	0657777777	nikolanikolic@yahoo.com	m	9.5	IV godina
24	Marko	Savic	1111165411111	Sime Milosevica 10	Novi Sad, RS	0658888888	markosavic@yahoo.com	m	8.6	IV godina
25	Petar	Petrovic	3005000771129	Alekse Santica 45	Gacko, BIH	06578365476	milanbjelica@yahoo.com	m	9	I godina
26										
27										
28										
29										
30										
31										

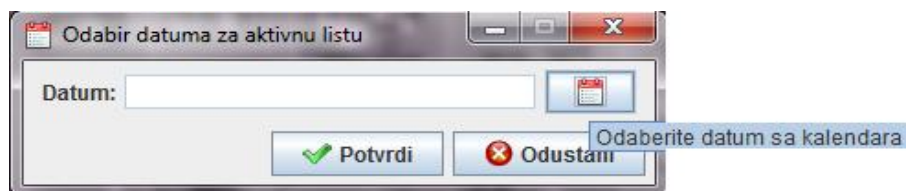
3.2.4.3 excel

3.2.5 Активне и претходне листе студената у домовима

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3.2.5.1.

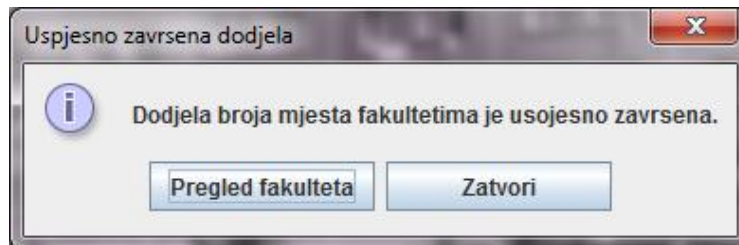


3.2.5.1

3.2.6 Додјела броја мјеста факултетима

3.2.6.1.

3.2.6.2.



3.2.6.1

ID	Naziv	Sjedište	Broj studenata	Broj mjesta u domu
1	FTN	NOVI SAD	9500	627
2	PMF	NOVI SAD	8512	561
3	TEHNOLOSKI	NOVI SAD	2700	178
64	FILOZOFSKI	BEOGRAD	4500	297
144	POLJOPRIVREDNI	BEOGRAD	6324	417

Tabela fakulteta Pregled

3.2.6.2

8.1.

3.2.7 Аутоматска расподела мјеста студентима у студентским домовима

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II

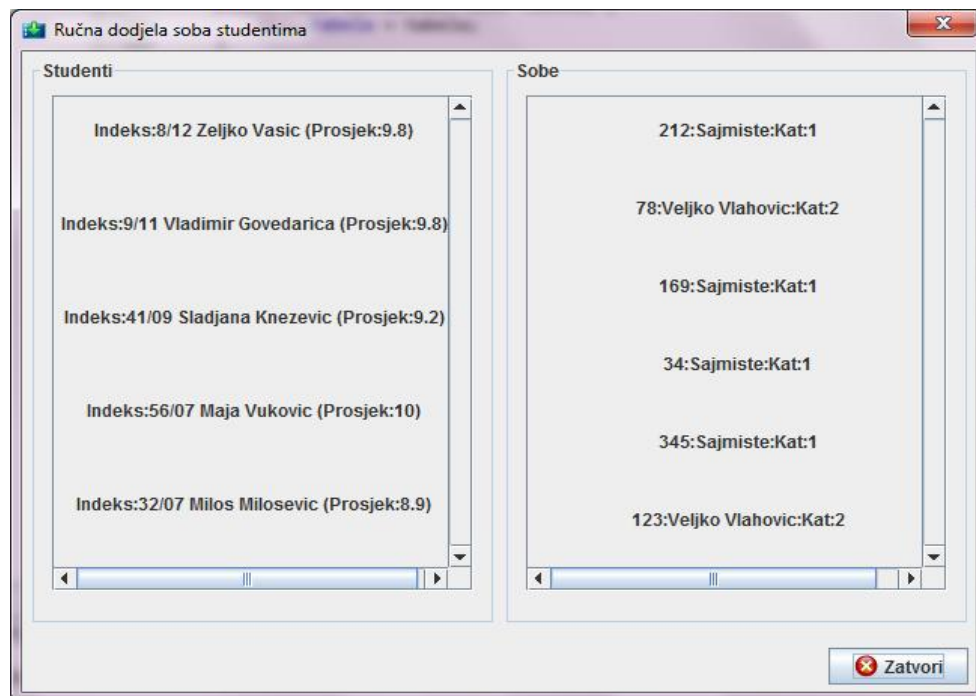
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8.2.

3.2.8 Ручна расподела

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3.2.8.1.



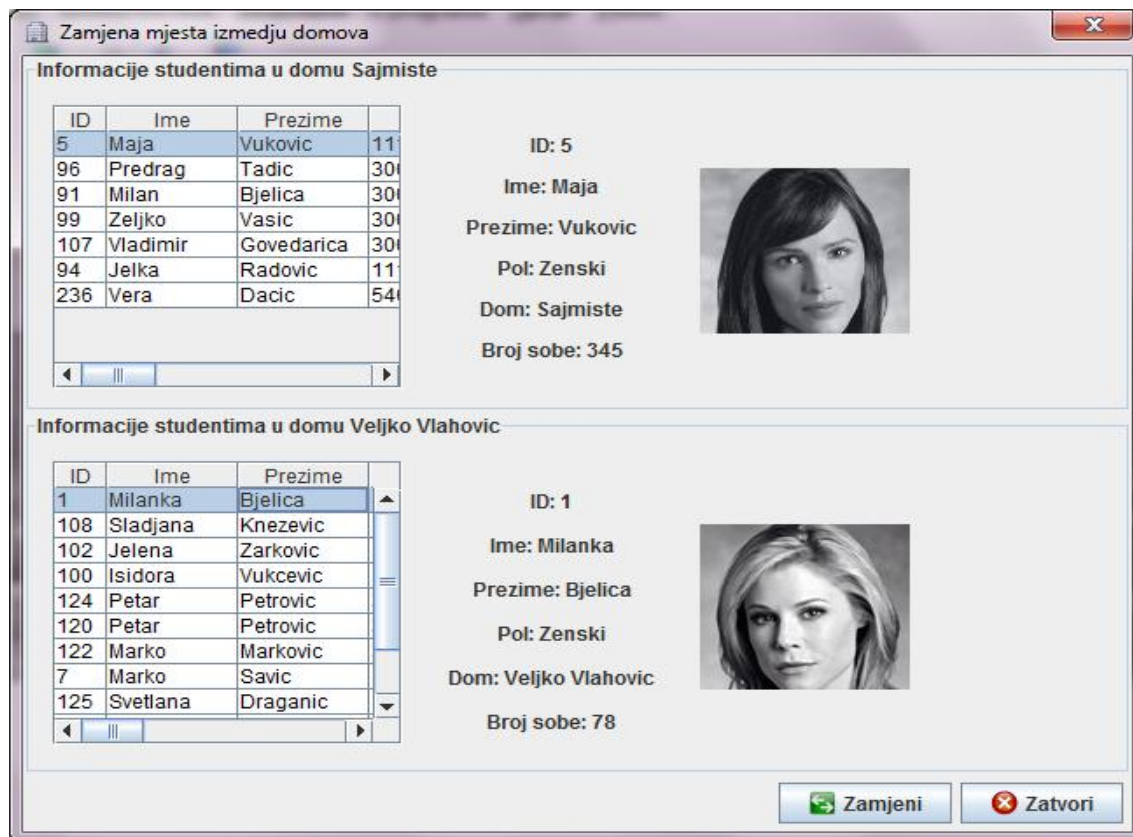
3.2.8.1

3.2.9 Замјена мјеста

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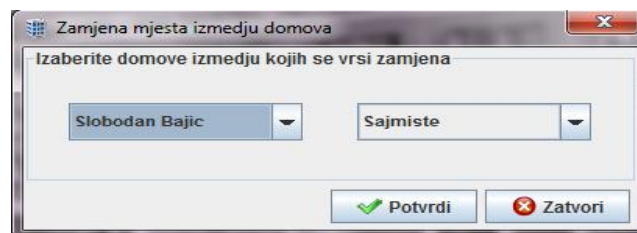
3.2.9.1.



3.2.9.1

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3.2.9.2

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3.2.9.1.



3.2.9.2

3.2.10 Помоћ

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3.2.10.1.



3.2.10.1

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Eclipse SDK
Microsoft Windows 7 je

Sybase Power
Oracle 11g.
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- [1] (, “; 36/10 55/12)
- [2] , , , – , , , , 2004, ISBN: 86-80249-81-5
- [3] Oracle Database Online Documentation 11g Release 2 – online documentation
- [4] Java SE 6 Documentation - <http://docs.oracle.com/javase/6/docs/>

6.

10. 1989. 2008/2009
” “
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7.

RDBMS – Relational Database Management System ()

–

R – Entity Relationship ()

CASE – Computer-Aided Software Engineering ()

8.1 Додјела броја мјеста по факултетима

```

create or replace
PROCEDURE DODJELAMJESTAFAKULTETIMA AS
    ukupno          NUMBER    :=0;
    ukupanbrstudenata NUMBER  :=0;
    procenatfak     NUMBER;
BEGIN
    SELECT SUM(brmjesta) INTO ukupno FROM studentskidom;
    SELECT SUM(ukupnostud)
    INTO ukupanbrstudenata
    FROM fakultet;

    FOR rec IN
    (SELECT nazivfak,ukupnostud FROM fakultet)
    LOOP
        procenatfak          :=rec.ukupnostud/ukupanbrstudenata;
        UPDATE fakultet
        SET brmjestaudomu =TRUNC(procenatfak*ukupno)
        WHERE nazivfak     =rec.nazivfak;
        Commit;
    END LOOP;
END DODJELAMJESTAFAKULTETIMA;

```

8.2 Аутоматска додјела мјеста студентима у студентским домовима

```

create or replace
PACKAGE AUTOMATSKA AS

type t_studentiUSobama is table of student%rowtype index by binary_integer;
type t_nepopunjenesobe is table of soba%rowtype index by binary_integer;

procedure DodjelaSobaStudentima;

END AUTOMATSKA;

```

```

create or replace
PACKAGE BODY AUTOMATSKA AS

procedure DodjelaSobaStudentima AS
    i binary_integer:=1;
    j binary_integer:=1;
    k binary_integer:=1;
    Tab_studentiUSobama t_studentiUSobama;
    Tab_StudentiUDomu t_studentiUSobama;
    Tab_bivsisstudenti t_studentiUSobama;
    Tab_NepopunjeneSobe t_nepopunjenesobe;
    Tab_DjelimicnoPopunjene t_nepopunjenesobe;
    Tab_ZenskiStudenti t_studentiUSobama;
    Tab_MuskiStudenti t_studentiUSobama;
    Tab_MuskeSobe t_nepopunjenesobe;
    Tab_ZenskeSobe t_nepopunjenesobe;
    nazivdoma Studentskidom.nazivsd%type;
    brmjestaudomu number:=0;
    brstudusobi number:=0;

```

```

bivsakreveti soba.brkreveta%type;
datums date;
bivsi student.bivsistanar%type;
kategorija kategorijadoma.idkat%type;
kategorija2 kategorijadoma.idkat%type;
sortiranje soba%rowtype;
s integer:=1;
muskaSoba integer:=1;
zenskaSoba integer :=1;
muskiStudent integer:=1;
zenskiStudent integer:=1;
b integer:=1;
pom integer;
brojSlobodnih integer:=0;
tippopolu dobije.tipsobepopolu%type;
BEGIN
select sum(brmjesta)into brmjestaudomu from studentskidom;
select max(datumspiska) into datums from aktivnispisak;
delete from aktivnistanari where datumspiska=datums;
delete from dobije;
update soba set TIPSOBEOPOPOPUIJENOSTI='prazna';
update student set idsd=null,idsobe=null where bivsistanar=0;

for rec in (select * from student where aktivnistanar='da' order by prosjekstud
desc)loop
if s<=brmjestaudomu then
insert into aktivnistanari values(datums,rec.idstud);
select bivsistanar into bivsi from student where idstud=rec.idstud;
if bivsi=1 then
Tab_bivsistudenti(b):=rec;
b:=b+1;
else
Tab_studentiUDomu(s):=rec;
s:=s+1;
end if;
else
exit;
end if;
end loop;

b:=Tab_bivsistudenti.first;
while b<=Tab_bivsistudenti.last loop
insert into
dobije(idstud,idsd,idsobe,datumdodjele,tipsobepopolu,datumprivremenogiseljenja)
values(
Tab_bivsistudenti(b).idstud,Tab_bivsistudenti(b).idsd,Tab_bivsistudenti(b).idsobe,sysd
ate,Tab_bivsistudenti(b).polstud,
ADD_MONTHS(sysdate, 8));
update student set datumdodjele=sysdate where
idstud=Tab_bivsistudenti(b).idstud;

select brkreveta into bivsakreveti from soba where
idsd=Tab_bivsistudenti(b).idsd and idsobe=Tab_bivsistudenti(b).idsobe;
if bivsakreveti=1 then
update soba set TIPSOBEOPOPOPUIJENOSTI='popunjena' where
idsd=Tab_bivsistudenti(b).idsd and idsobe=Tab_bivsistudenti(b).idsobe;
else
update soba set TIPSOBEOPOPOPUIJENOSTI='djelimicno' where
idsd=Tab_bivsistudenti(b).idsd and idsobe=Tab_bivsistudenti(b).idsobe;
end if;
b:=b+1;
end loop;

```

```

for rec2 in (select * from soba) loop
  if rec2.TIPSOBEPOPOPUIJENOSTI!='popunjena' then
    if rec2.TIPSOBEPOPOPUIJENOSTI='prazna' then
      Tab_NepopunjeneSobe(j):=rec2;
      j:=j+1;
    else
      Tab_DjelimicnoPopunjene(k):=rec2;
      k:=k+1;
    end if;
  end if;
end loop;

for j in Tab_NepopunjeneSobe.first..Tab_NepopunjeneSobe.last-1 loop
  select idkat into kategorija from studentskidom where
idsd=Tab_NepopunjeneSobe(j).idsd;
  pom:=Tab_NepopunjeneSobe.next(j);
  for f in pom..Tab_NepopunjeneSobe.last loop
    select idkat into kategorija2 from studentskidom where
idsd=Tab_NepopunjeneSobe(f).idsd;
    if kategorija>kategorija2 then
      sortiranje:=Tab_NepopunjeneSobe(f);
      Tab_NepopunjeneSobe(f):=Tab_NepopunjeneSobe(j);
      Tab_NepopunjeneSobe(j):=sortiranje;
    end if;
  end loop;
end loop;

for j in Tab_DjelimicnoPopunjene.first..Tab_DjelimicnoPopunjene.last-1 loop
  select idkat into kategorija from studentskidom where
idsd=Tab_DjelimicnoPopunjene(j).idsd;
  pom:=Tab_DjelimicnoPopunjene.next(j);
  for f in pom..Tab_DjelimicnoPopunjene.last-1 loop
    select idkat into kategorija2 from studentskidom where
idsd=Tab_DjelimicnoPopunjene(f).idsd;
    if kategorija>kategorija2 then
      sortiranje:=Tab_DjelimicnoPopunjene(f);
      Tab_DjelimicnoPopunjene(f):=Tab_DjelimicnoPopunjene(j);
      Tab_DjelimicnoPopunjene(j):=sortiranje;
      select idkat into kategorija from studentskidom where
idsd=Tab_DjelimicnoPopunjene(f).idsd;
    end if;
  end loop;
end loop;

j:=Tab_NepopunjeneSobe.first;
s:=Tab_studentiUDomu.first;
while j<=Tab_NepopunjeneSobe.last loop
  exit when s is null;
  insert into
dobije(idstud,idsd,idsobe,datumdodjele,tipsobepopolu,datumprivremenogiseljenja)
values(Tab_StudentiUDomu(s).idstud,Tab_NepopunjeneSobe(j).idsd,Tab_NepopunjeneSobe(j).
idsobe,
  sysdate,Tab_studentiUDomu(s).polstud,ADD_MONTHS(sysdate, 8));
  update student
  set
idsd=Tab_NepopunjeneSobe(j).idsd,idsobe=Tab_NepopunjeneSobe(j).idsobe,datumdodjele=sys
date
  where idstud=Tab_StudentiUDomu(s).idstud;
  if Tab_NepopunjeneSobe(j).brkreveta=1 then
    update soba set TIPSOBEPOPOPUIJENOSTI='popunjena' where
idsobe=Tab_NepopunjeneSobe(j).idsobe;
  else

```

```

        update soba set TIPSOBEPOPOPUINJENOSTI='djelimicno' where
idsobe=Tab_NepopunjeneSobe(j).idsobe;
        Tab_DjelimicnoPopunjene(k):=Tab_NepopunjeneSobe(j);
        k:=k+1;
    end if;
    s:=Tab_StudentiUDomu.next(s);
    j:=Tab_NepopunjeneSobe.next(j);
end loop;

for rec7 in (select * from soba where tipsobepopopuinjenosti='djelimicno')loop
    select tipsobepopolu into tippopolu from dobije where idsd=rec7.idsd and
idsobe=rec7.idsobe;
    if tippopolu='m' then
        Tab_MuskeSobe(muskaSoba):=rec7;
        muskaSoba:=muskaSoba+1;
    else
        Tab_ZenskeSobe(zenskaSoba):=rec7;
        zenskaSoba:=zenskaSoba+1;
    end if;
end loop;
s:=Tab_StudentiUDomu.next(s);
while s<=Tab_StudentiUDomu.last loop
    if Tab_StudentiUDomu(s).polstud='m' then
        Tab_MuskiStudenti(muskiStudent):=Tab_StudentiUDomu(s);
        muskiStudent:=muskiStudent+1;
    else
        Tab_ZenskiStudenti(zenskiStudent):=Tab_StudentiUDomu(s);
        zenskiStudent:=zenskiStudent+1;
    end if;
    s:=Tab_StudentiUDomu.next(s);
end loop;

zenskiStudent:=Tab_ZenskiStudenti.first;
zenskaSoba:=Tab_ZenskeSobe.first;
while zenskiStudent<=Tab_zenskiStudenti.last loop
    if zenskaSoba<=Tab_ZenskeSobe.last then
        insert into
dobije(idstud,idsd,idsobe,datumdodjele,tipsobepopolu,datumprivremenogiseljenja)
values(Tab_zenskiStudenti(zenskiStudent).idstud,Tab_ZenskeSobe(zenskaSoba).idsd,Tab_Ze
nskeSobe(zenskaSoba).idsobe,
        sysdate,Tab_zenskiStudenti(zenskiStudent).polstud,ADD_MONTHS(sysdate, 8));
        update student set
datumdodjele=sysdate,idsd=Tab_ZenskeSobe(zenskaSoba).idsd,idsobe=Tab_ZenskeSobe(zenska
Soba).idsobe
        where idstud=Tab_zenskiStudenti(zenskiStudent).idstud;
        select count(idstud) into brstudusobi from dobije
        where idsd=Tab_ZenskeSobe(zenskaSoba).idsd and
idsobe=Tab_ZenskeSobe(zenskaSoba).idsobe;
        if Tab_ZenskeSobe(zenskaSoba).brkreveta=brstudusobi then
            update soba set TIPSOBEPOPOPUINJENOSTI='popunjena'
            where idsd=Tab_ZenskeSobe(zenskaSoba).idsd and
idsobe=Tab_ZenskeSobe(zenskaSoba).idsobe;
            zenskaSoba:=Tab_ZenskeSobe.next(zenskaSoba);
            end if;
        else
            exit;
        end if;
        zenskiStudent:=Tab_zenskiStudenti.next(zenskiStudent);
    end loop;

muskiStudent:=Tab_MuskiStudenti.first;

```

```

muskaSoba:=Tab_MuskeSobe.first;
while muskiStudent<=Tab_MuskiStudenti.last loop
  if muskaSoba<=Tab_MuskeSobe.last then
    insert into
dobije(idstud,idsd,idsobe,datumdodjele,tipsobepopolu,datumprivremenogiseljenja)
values(Tab_MuskiStudenti(muskiStudent).idstud,Tab_MuskeSobe(muskaSoba).idsd,Tab_MuskeSobe(muskaSoba).idsobe,
  sysdate,Tab_MuskiStudenti(muskiStudent).polstud,ADD_MONTHS(sysdate, 8));
  update student set
datumdodjele=sysdate,idsd=Tab_MuskeSobe(muskaSoba).idsd,idsobe=Tab_MuskeSobe(muskaSoba).idsobe
  where idstud=Tab_MuskiStudenti(muskiStudent).idstud;
  select count(idstud) into brstudusobi from dobije
  where idsd=Tab_MuskeSobe(muskaSoba).idsd and
idsobe=Tab_MuskeSobe(muskaSoba).idsobe;
  if Tab_MuskeSobe(muskaSoba).brkreveta=brstudusobi then
    update soba set TIPSOBEPOPOPUIINJENOSTI='popunjena'
    where idsd=Tab_MuskeSobe(muskaSoba).idsd and
idsobe=Tab_MuskeSobe(muskaSoba).idsobe;
    muskaSoba:=Tab_MuskeSobe.next(muskaSoba);
  end if;
  else
    exit;
  end if;
  muskiStudent:=Tab_MuskiStudenti.next(muskiStudent);
end loop;

END DodjelaSobaStudentima;

END AUTOMATSKA;

```