## FAKULTETI I INXHINIERISË ELEKTRIKE DHE KOMPJUTERIKE



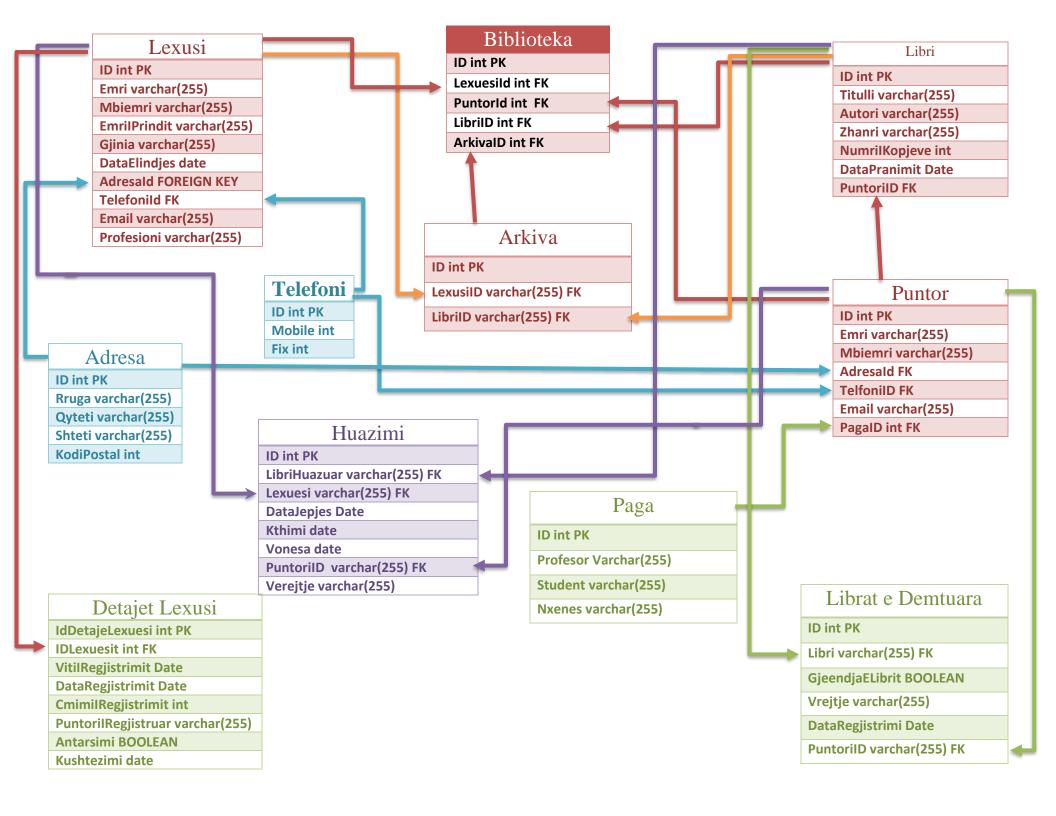
# Bazat E te dhenave

Projekti Faza 1

| Prof | Lule Ahmedi   | Punuar nga: |                  |
|------|---------------|-------------|------------------|
|      | Edic Allinedi |             | Albulena Makolli |

Blerina Beka

Arbresha Stublla Ass Dalinë Vranovci Blerta Ujkani



| Lexuesi |            |           |                                |                      |                  |            |                |           |  |  |
|---------|------------|-----------|--------------------------------|----------------------|------------------|------------|----------------|-----------|--|--|
| ID      | Emri       | Mbiemri   | Adresa                         | Telefoni             | Email            | Profesioni | Emri I Prindit |           |  |  |
| 1       | Arbresha   | Stublla   | Halili,Prishtina,Kosova,10000  | 04885567,+3834885567 | AS2@hotmail.com  | Student    | Halil          |           |  |  |
| 2       | Albulena   | Makolli   | Rruga B,Prishtina,Kosova,10000 | 04885557,+3834885567 | Am5@hotmail.com  | Student    | Ismet          |           |  |  |
| 3       | Arjanit    | Krasniqi  | Rexh A,Pejë,Kosovo,30000       | 04885547,+3834885567 | Ak@hotmail.com   | Student    | Jeton          |           |  |  |
| 4       | Blerina    | Beka      | Brezhanik,Pejë,Kosovo,30000    | 04885537,+3834885567 | B@hotmail.com    | Student    | Bekë           |           |  |  |
| 5       | Blerta     | Ujkani    | Muhaxheri,Pejë,Kosovo,30000    | 04885567,+3834885567 | Ujk@hotmail.com  | Student    | Besnik         |           |  |  |
| 6       | Bleart     | Pista     | Rruga B,Prishtina,Kosova,10000 | 04885567,+3834885567 | Bp@hotmail.com   | Student    | Arton          |           |  |  |
| 7       | Diar       | Hoda      | Rruga B,Prishtina,Kosova,10000 | 04885567,+3834885567 | Diar@hotmail.com | Student    | Arsim          |           |  |  |
| 8       | Drinor     | Krasniqi  | Brezhanik,Pejë,Kosovo,30000    | 04885567,+3834885567 | Nori@hotmail.com | Student    | Arben          |           |  |  |
| 9       | Dion       | Berisha   | 8 Marsi,Pejë,Kosovo,30000      | 04885567,+3834885567 | Db@hotmail.com   | Student    | Sokol          |           |  |  |
| 10      | Vesa       | Krasniqi  | 8 Marsi,Pejë,Kosovo,30000      | 04885567,+3834885567 | VK@hotmail.com   | Student    | Syl            |           |  |  |
| Libri   |            |           |                                |                      |                  |            |                |           |  |  |
| ID      | Titulli    | Autori    | Data e pranimit                | Puntori              |                  |            |                |           |  |  |
| 1       | Krenari    | Noli      | 15.02.2021                     | Blerina              |                  |            |                |           |  |  |
| 2       | Jeta       | A.Zeli    | 12.05.2020                     | Arbresha             |                  |            |                |           |  |  |
| 3       | Syt e Saj  | F.Aliu    | 25.08.2015                     | Blerta               |                  |            |                |           |  |  |
| 4       | Zemra ti   | P.L.Mali  | 24.09.2014                     | Dion                 |                  |            |                |           |  |  |
| 5       | Sikur      | В         | 05.01.2019                     | Drinor               |                  |            |                |           |  |  |
| 6       | Vetja      | Populi    | 25.06.2018                     | Bleart               |                  |            |                |           |  |  |
| 7       | Paragjykim | J.Kruqziu | 29.10.2020                     | Albulena             |                  |            |                |           |  |  |
| 8       | Gjaksia    | Miroci    | 12.07.2017                     | Vesa                 |                  |            |                |           |  |  |
| 9       | Hiri       | B.Faziri  | 05.06.2021                     | Arjanit              |                  |            |                |           |  |  |
| 10      | Deti Lum   | D.Drenush | 02.01.2021                     | Diar                 |                  |            |                |           |  |  |
|         | Adresa     |           |                                |                      | 1                |            | Telefoni       |           |  |  |
| ID      | Rruga      | Qyteti    | Shteti                         | Kodi Postal          |                  | ID         | Mobail         | Fax       |  |  |
| 1       | В          | Prishtin  | Kosovë                         | 10000                |                  | 1          | 452649         | 383455696 |  |  |
| 2       | Rexh A     | Pejë      | Kosovë                         | 30000                |                  | 2          | 299637         | 383458256 |  |  |
| 3       | Brezhanik  | Pejë      | Kosovë                         | 30000                |                  | 3          | 5288569        | 383458297 |  |  |
| 4       | 8 Mars     | Pejë      | Kosovë                         | 30000                |                  | 4          | 9845447        | 383488296 |  |  |
|         |            |           |                                |                      |                  |            |                |           |  |  |
|         |            |           |                                |                      |                  |            |                |           |  |  |
|         |            |           |                                |                      |                  |            |                |           |  |  |

|         | Puntori  |          |                                  |                      |                  |          |         |  |  |
|---------|----------|----------|----------------------------------|----------------------|------------------|----------|---------|--|--|
| ID      | Emri     | Mbiemri  | Adresa                           | Telefoni             | Email            | Paga     |         |  |  |
| 1       | Arbresha | Stublla  | Halili, Prishtina, Kosova, 10000 | 04885567,+3834885567 | AS2@hotmail.com  | Student  |         |  |  |
| 2       | Albulena | Makolli  | Rruga B,Prishtina,Kosova,10000   | 04885557,+3834885567 | Am5@hotmail.com  | Student  |         |  |  |
| 3       | Arjanit  | Krasniqi | Rexh A,Pejë,Kosovo,30000         | 04885547,+3834885567 | Ak@hotmail.com   | Profesor |         |  |  |
| 4       | Blerina  | Beka     | Brezhanik, Pejë, Kosovo, 30000   | 04885537,+3834885567 | B@hotmail.com    | Student  |         |  |  |
| 5       | Blerta   | Ujkani   | Muhaxheri,Pejë,Kosovo,30000      | 04885567,+3834885567 | Ujk@hotmail.com  | Student  |         |  |  |
| 6       | Bleart   | Pista    | Rruga B,Prishtina,Kosova,10000   | 04885567,+3834885567 | Bp@hotmail.com   | Student  |         |  |  |
| 7       | Diar     | Hoda     | Rruga B,Prishtina,Kosova,10000   | 04885567,+3834885567 | Diar@hotmail.com | Profesor |         |  |  |
| 8       | Drinor   | Krasniqi | Brezhanik, Pejë, Kosovo, 30000   | 04885567,+3834885567 | Nori@hotmail.com | Profesor |         |  |  |
| 9       | Dion     | Berisha  | 8 Marsi,Pejë,Kosovo,30000        | 04885567,+3834885567 | Db@hotmail.com   | Student  |         |  |  |
| 10      | Vesa     | Krasniqi | 8 Marsi,Pejë,Kosovo,30000        | 04885567,+3834885567 | VK@hotmail.com   | Student  |         |  |  |
|         |          |          |                                  |                      |                  |          |         |  |  |
|         | Paga     |          |                                  |                      | Arkiva           |          |         |  |  |
| ID      |          | Student  | Nxenes                           |                      | ID               | LexuesID | LibriID |  |  |
| 1       |          | Arbresha |                                  |                      | 1                | 1L       | 1LI     |  |  |
| 2       |          | Blerina  | Ska                              |                      | 2                | 2L       | 2LI     |  |  |
| 3       | Drinor   | Albulena |                                  | <u> </u>             | 3                | 2L       | 3LI     |  |  |
|         |          |          |                                  |                      |                  |          |         |  |  |
| _       |          |          |                                  |                      |                  |          |         |  |  |
| _       |          |          |                                  |                      |                  |          |         |  |  |
| <u></u> |          |          |                                  |                      |                  |          |         |  |  |
|         |          |          |                                  |                      |                  |          |         |  |  |
| _       |          |          |                                  |                      |                  |          |         |  |  |
| _       |          |          |                                  |                      |                  |          |         |  |  |
|         |          |          |                                  |                      |                  |          |         |  |  |
|         |          |          |                                  |                      |                  |          |         |  |  |
|         |          |          |                                  |                      |                  |          |         |  |  |

|    | Detajet Lexuesi   |                     |                     |                      |                       |           |           |         |  |
|----|-------------------|---------------------|---------------------|----------------------|-----------------------|-----------|-----------|---------|--|
| ID | Idlevuesi         | Viti<br>Regjistrimi | Data e Regjistrimi  | Cmimi I Regjistrimit | Puntori I regjistruar | Antarsimi | Kushti    |         |  |
| 1  | 1L                | 2019                | 20.01.2019          | 5\$                  | AS2@hotmail.com       | Student   | 2022      |         |  |
| 2  | 2L                | 2018                | 12.08.2018          | 5\$                  | Am5@hotmail.com       | Student   | 2022      |         |  |
| 3  | 2L                | 2012                | 04.02.2012          | 10\$                 | Ak@hotmail.com        | Profesor  | 2019      |         |  |
| 4  | 4L                | 2017                | 02.01.2017          | 5\$                  | B@hotmail.com         | Student   | 2020      |         |  |
| 5  | 5L                | 2015                | 05.11.2015          | 5\$                  | Ujk@hotmail.com       | Student   | 2019      |         |  |
| 6  | 6L                | 2020                | 29.07.2020          | 5\$                  | Bp@hotmail.com        | Student   | 2022      |         |  |
| 7  | 7L                | 2017                | 31.909.2017         | 10\$                 | Diar@hotmail.com      | Profesor  | 2020      |         |  |
| 8  | 8L                | 2021                | 31.12.2021          | 10\$                 | Nori@hotmail.com      | Profesor  | 2023      |         |  |
|    |                   |                     |                     |                      |                       |           |           |         |  |
|    |                   |                     |                     |                      |                       |           |           |         |  |
| -  |                   |                     |                     |                      |                       |           |           |         |  |
|    | Libri             |                     | Г                   | Huazimi              | <u> </u>              | I         | 1         |         |  |
| ID | Huazuar           | Lexuesi             | Viti I rigjistrimit | Data e Jepjes        | Kthimi                | Vonesa    | PuntoriID | Vrejtje |  |
| 1  | Krenari           | Arbresha            | 2019                | 24.01.2019           | 28.01.2019            | 0         | 1P        | Ska     |  |
| 2  | Jeta              | Albulena            | 2018                | 14.08.2018           | 18.08.2018            | 0         | 2P        | Ska     |  |
| 3  | Syt e Saj         | Arjanit             | 2012                | 08.02.2012           | 15.02.2012            | 0         | 3P        | Ska     |  |
| 4  | Zemra ti          | Blerina             | 2017                | 17.01.2017           | 22.01.2017            | 1         | 4P        | Ska     |  |
|    |                   |                     |                     |                      |                       |           |           |         |  |
|    | Librat e Demtuara |                     |                     |                      |                       |           |           |         |  |
| ID |                   | Gjendja E<br>librit | Vrejte              | Data e Regjistrimit  | PuntoriID             |           |           |         |  |
| 1  | Krenari           | Mire                | ska                 | 20.01.2019           | 1P                    |           |           |         |  |
| 2  | Jeta              | Mire                | ska                 | 12.08.2018           | 2P                    |           |           |         |  |
| 3  | Syt e Saj         | Mire                | ska                 | 04.02.2012           | 3P                    |           |           |         |  |
| 4  | Zemra ti          | Mire                | Ska                 | 02.01.2017           | 4P                    |           |           |         |  |
|    |                   |                     |                     |                      |                       |           |           |         |  |

#### Faza 1

### Algjebra relacionare:

• Listoni te gjithe lexuesit qe jane nga qyteti i Prishtines.

π (σ qyteti="Prishtine" (Lexuesi x Adresa))

• Cilet lexues (Emri dhe Mbiemrin e tyre) kane huazuar te pakten dy libra gjate vitit 2020.

 $\pi$  Emri,Mbimer( $\sigma$  dataEhuazimit="2020" and huazimi>=2(Lexuesi x Huazimi))

• Listoni lexuesit te cilet e kane vonuar kthimin e librit per afatin 15 ditesh ne vitin 2020 dhe 2021.

 $\pi$  ( $\sigma$  dataEvoneses>="15" and ( dataEhuazimit="2020" or dataEhuazimit="2021")(Lexuesi x Huazimi))

• Listoni ID-të dhe titullin e librave qe ne vitin 2019 ose 2020 jane huazur se paku nje here kurse ne vitin 2021 asnjehere.

 $\pi$  ID, Titulli ( $\sigma$  (heraEhuazimit>="1" and ( dataEhuazimit="2019" or dataEhuazimit="2020") or (dataEhuazimit="0" and dataEhuazimit="2021"))(Libri x Huazimi))

#### Faza 1

Datalog:

• Listoni te gjithe lexuesit qe jane nga qyteti i Prishtines.

L(q) <- A(q, "Prishtinë")

• Cilët lexues (Emrin dhe Mbiemrin e tyre) kanë huazuar te pakten dy

libra gjate vitit 2020?

L(e,m) <- H(h,v) and H>=2 and v="2020"

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

L()<-H(k,v) and k>=15 and v="2020" or v="2021"

• Listoni ID-të dhe titullin e librave qe ne vitin 2019 ose 2020 jane huazur se paku nje here kurse ne vitin 2021 asnjehere .

L(I,t) < -H(v,k) and ( (v="2019" or v="2020") and k=1) or ( v="2021" and k=0)