Normalizimi i DB-se permes BCNF(Boyce-Codd Normal Form)

**Address**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **addressID** | userID | Country | City | Zipcode | Street |
| 300 | 101 | Kosove | Prishtine | 10000 | Fan Noli |
| 301 | 105 | Shqiperi | Durres | 2000 | Skenderbeu |
| 302 | 102 | Kosove | Gjilan | 60000 | Hasan Prishtina |
| 303 | 109 | Maqedoni | Tetove | 1220 | Nena Tereze |
| 304 | 100 | Shqiperi | Fier | 9300 | Pandeli Sotiri |
| 305 | 104 | Kosove | Viti | 30000 | Shaban Shala |
| 306 | 108 | Mali I Zi | Ulqin | 85360 | Ismail Qemaili |
| 307 | 107 | Kosove | Prishtine | 10000 | Shpetim Robaj |
| 308 | 103 | Shqiperi | Shkoder | 4000 | Arsim Isufi |
| 309 | 106 | Kosove | Besiane | 70000 | Naim Frasheri |

Ne relacionin “address” verejme dy varesi funksionale:

1. addressID--->userID, Country, City, Zipcode, Street
2. City--->Country, Zipcode

1).Varesia e pare funksionale ‘addressID--->userID, Country, City, Zipcode, Street’ eshte ne BCNF sepse:

* Nuk paraqet varesi funksionale triviale.
* addressID e permban celesin.

2).Varesia e dyte funksionale ‘City--->Country, Zipcode’ nuk eshte ne BCNF sepse:

* Nuk paraqet varesi funksionale triviale.
* City nuk e permban celesin.

Pra, kjo varesi funksionale paraqet nje lendim.Andaj, duhet te bejme dekompozimin e ketij relacioni. Permes **dekompozimit** behet ndarja neper tabela ne ato kolona ku ka varesi funksionale.

addressID, userID, Country, City, Zipcode, Street

addressID, userID,City, Street

City, Country, Zipcode

Perfundimisht permes dekompozimit realcioni Address do te duket keshtu:

Address (addressID, userID,City, Street)

|  |  |  |  |
| --- | --- | --- | --- |
| **addressID** | userID | City | Street |
| 300 | 101 | Prishtine | Fan Noli |
| 301 | 105 | Durres | Skenderbeu |
| 302 | 102 | Gjilan | Hasan Prishtina |
| 303 | 109 | Tetove | Nena Tereze |
| 304 | 100 | Fier | Pandeli Sotiri |
| 305 | 104 | Viti | Shaban Shala |
| 306 | 108 | Ulqin | Ismail Qemaili |
| 307 | 107 | Prishtine | Shpetim Robaj |
| 308 | 103 | Shkoder | Arsim Isufi |
| 309 | 106 | Besiane | Naim Frasheri |

Ndersa relacioni i ndare:

(City, Country, Zipcode)

|  |  |  |  |
| --- | --- | --- | --- |
| City |  | Country | Zipcode |
| Prishtine |  | Kosove | 10000 |
| Durres |  | Shqiperi | 2000 |
| Gjilan |  | Kosove | 60000 |
| Tetove |  | Maqedoni | 1220 |
| Fier |  | Shqiperi | 9300 |
| Viti |  | Kosove | 30000 |
| Ulqin |  | Mali I Zi | 85360 |
| Prishtine |  | Kosove | 10000 |
| Shkoder |  | Shqiperi | 4000 |
| Besiane |  | Kosove | 70000 |