**Aluno**: Guilherme Soares Rocha

**Matrícula**: 211039789

**Exercício 2 da Aula 9 (Evolução 2)**

a) B∪Y

|  |  |  |
| --- | --- | --- |
| # | **codigo** | **nome** |
| 1 | 001 | Brasil |
| 2 | 104 | C.E.F. |
| 3 | 341 | Itaú |
| 4 | 350 | Real |

b) 

|  |  |  |
| --- | --- | --- |
| # | **codigo** | **nome** |
| 1 | 001 | Brasil |

1. B - Y

|  |  |  |
| --- | --- | --- |
| # | **codigo** | **nome** |
| 1 | 104 | C.E.F. |
| 2 | 341 | Itaú |

Y - B

1. B x Y

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| # |  | **codigo** |  | **nome** |  |  |
| 1 |  | 350 |  | Real |  |  |
| # | B.codigo | | B.nome | | Y.codigo | Y.nome |
| 1 | 001 | | Brasil | | 001 | Brasil |
| 2 | 001 | | Brasil | | 350 | Real |
| 3 | 104 | | C.E.F | | 001 | Brasil |
| 4 | 104 | | C.E.F | | 350 | Real |
| 5 | 341 | | Itaú | | 001 | Brasil |
| 6 | 341 | | Itaú | | 350 | Real |

1. π idAgencia, cidade, estado (A)

|  |  |  |  |
| --- | --- | --- | --- |
| # | idAgencia | cidade | unFed |
| 1 | 5101 | Brasília | DF |
| 2 | 930 | Brasília | DF |
| 3 | 4146 | Taguatingua | DF |

1. σ [cidade = ”Brasília”] (L)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| # | cpf | nome | foneResid | cidade | estado |
| 1 | 100 | João Castro | 4563760 | Brasília | DF |
| 2 | 200 | José Sechi | 3576721 | Brasília | DF |

1. Θ [agencia = idAgencia] (C, A)

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **#** | **conta** | **tipoConta** | **saldo** | **agencia** | **idAgenci**  **a** | **rua** | **numero** | **compl** | **bairro** | **cidade** | **unFe**  **d** | **banco** |
| 1 | 5943  1 | Poupança | 1000,0  0 | 4146 | 4146 | Q.S. | 07 | Lote 1 | Águas Claras | Taguating  a | DF | 341 |
| 2 | 4785  6 | Corrente | -50,00 | 930 | 930 | L 2 | 407 | Bloco A | A.Sul | Brasília | DF | 001 |
| 3 | 3012  4 | Corrente | 200,00 | 4146 | 4146 | Q.S. | 07 | Lote 1 | Águas Claras | Taguating  a | DF | 341 |

1. π agencia, tipoConta, cidade (σ [saldo > 0] (Θ [agencia=idAgencia]

(C, A)))

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **agencia** | **tipoConta** | **cidade** |
| 1 | 4146 | Poupança | Taguatinga |
| 2 | 4146 | Corrente | Taguatinga |

**π nome, saldo, estado (σ [estado≠”DF”]] (Cliente** |**x**| **Conta) )**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **nome** | **saldo** | **estado** |
| 1 | Maria Alves | 1000,00 | GO |
| 2 | Maria Alves | -50,00 | GO |
| 3 | Maria Alves | 200,00 | GO |

1. **π nome, foneResid, conta, saldo (σ saldo < 0 ^ estado=”DF”**

**(Cliente** |**x**| **Conta)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **nome** | **foneResid** | **conta** | **saldo** |
| 1 | José Sechi | 3576721 | 47856 | -50,00 |