Projeto:Parte 2

Criar Arquivo Invertido

Estrutura do dado

```
7 public class TermData {
8    //starts with zero and increment for each 3 lines separation in csv document
9    private int position;
10    private int frequency;
11    private String documentID;
12
13    public TermData(int position, int frequency, String documentID) {
14         this.position = position;
15         this.frequency = frequency;
16         this.documentID = documentID;
17    }
```

Estrutura do dado

```
public class IndexRow {
private String word;
private List<TermData> posting;
private int position;

public IndexRow(String word) {
    this.word = word;
    this.posting = new ArrayList<TermData>();
    this.position = 0;
}
```

```
9 public class InvertedIndex {
10    private Vector<IndexRow> indexRows;
11
12    public InvertedIndex() {
13         this.indexRows = new Vector<>();
```

14

15

16

setIndexRowDefaultElements();

```
@Override
public String toString()
    StringBuilder sb = new StringBuilder();
    for (IndexRow indexRow : indexRows) {
        sb.append(indexRow.getWord());
        sb.append(";");
        sb.append(indexRow.getPosting().size());
        for (TermData posting : indexRow.getPosting()) {
            sb.append(posting.toString());
            sb.append(",");
        sb.setLength(sb.length() - 1);
        sb.append("\n");
    return sb.toString();
```

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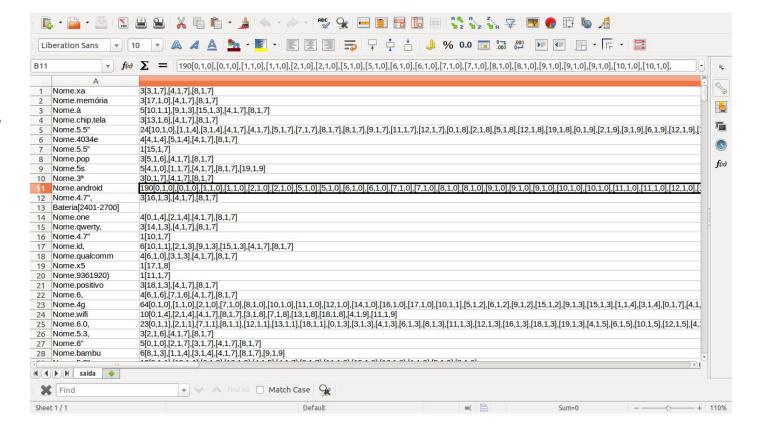
```
public String compressedToString(int tamCSVs[])
93⊖
94
35
            StringBuilder sb = new StringBuilder();
96
97
            for (IndexRow indexRow : indexRows) {
98
                sb.append(indexRow.getWord());
                sb.append(";");
39
90
                sb.append(indexRow.getPosting().size());
91
92
93
                for (TermData posting : indexRow.getPosting()) {
                    sb.append(posting.compressedToString(tamCSVs));
94
95
                    sb.append(",");
96
97
                sb.setLength(sb.length() - 1);
                sb.append("\n");
98
99
10
11
            return sb.toString();
12
13 }
```

```
TC
       public String compressedToString(int tamCSVs[])
52⊖
53
           int valor = this.position;
54
55
           int doc = Integer.parseInt(getId());
56
           for (int i = 0; i < doc; i++)
57
58
               valor += tamCSVs[i];
59
           return "[" + valor + "," + this.frequency + "]";
70
71
```

Lista invertida

FrequênciaTotal[posiçãoCSV, frequênciaLocal, NomeCsv]

45,7 kB



Lista invertida comprimida

FrequêciaTotal[posiçãoCsvGeral, frequênciaLocal]

ABC O % 0.0 100 000 Liberation Sans Bateria[301-600] A21 1 Preco[1-300] 4[49,1],[72,1],[75,1],[116,1] 2 Preco[301-600] 26[7,1],[9,1],[17,1],[20,1],[24,1],[32,1],[41,1],[43,1],[46,1],[48,1],[68,1],[70,1],[76,1],[82,1],[83,1],[85,1],[97,1],[98,1],[105,1],[108,1],[109,1],[112,1],[113,1],[114,1],[119,169[6,1],[10,1],[14,1],[15,1],[18,1],[22,1],[23,1],[26,1],[27,1],[30,1],[31,1],[33,1],[35,1],[36,1],[37,1],[39,1],[40,1],[47,1],[51,1],[52,1],[57,1],[59,1],[64,1],[71,1],[74,1],[77,1]3 Preco[601-900] 4 Preco[901-1200] 28[5,1],[8,1],[11,1],[21,1],[25,1],[29,1],[34,1],[44,1],[53,1],[55,1],[66,1],[69,1],[90,1],[93,1],[100,1],[104,1],[106,1],[117,1],[120,1],[121,1],[121,1],[142,1],[149,1],[150,1],[168,1], 5 Preco[1201-1500] 19[2,1],[19,1],[38,1],[45,1],[61,1],[62,1],[63,1],[79,1],[81,1],[89,1],[91,1],[102,1],[103,1],[143,1],[146,1],[161,1],[167,1],[173,1],[180,1] 6 Preco[1501-1800] 7[0,1],[4,1],[12,1],[16,1],[42,1],[50,1],[163,1] 7 Preco[1801-2100] 8 Preco[2101-2400] 3[1,1],[13,1],[58,1] 9 Preco[2401-2700] 1[65,1] 10 Preco[2701-3000] 1[60,1] 11 Preco[3001-3300] 12 Preco[3301-3600] 4[28,1],[54,1],[67,1],[73,1] 13 Preco[3601-3900] 14 Preco[3901-4200] 1[56,1] 46[0,1],[1,1],[2,1],[3,1],[5,1],[6,1],[7,1],[8,1],[9,1],[11,1],[12,1],[14,1],[15,1],[16,1],[17,1],[125,1],[129,1],[142,1],[143,1],[144,1],[145,1],[146,1],[148,1],[149,1],[150,1],[141,1],[115 Conexao.Wifi 33[0,1],[1,1],[2,1],[6,1],[7,1],[8,1],[9,1],[12,1],[15,1],[16,1],[17,1],[125,1],[129,1],[142,1],[143,1],[144,1],[145,1],[146,1],[150,1],[153,1],[160,1],[161,1],[166,1],[16716 Conexao.3g 17 Conexao.4q 58[0,1],[1,1],[2,1],[3,1],[4,1],[5,1],[6,1],[7,1],[8,1],[10,1],[11,1],[12,1],[13,1],[14,1],[15,1],[16,1],[17,1],[125,1],[129,1],[141,1],[142,1],[143,1],[144,1],[145,1],[146,1],[1472[125,1],[129,1] 18 Conexao.Bluetooth 2[125,1],[129,1] 19 Conexao.NFC 20 Bateria[1-300] Bateria[301-600] 22 Bateria[601-900] 23 Bateria[901-1200] 24 Bateria[1201-1500] 25 Bateria 1501-1800 1[9,1] 26 Bateria[1801-2100] 27 Bateria[2101-2400] 4[152,1],[156,1],[157,1],[162,1] 11[17,1],[144,1],[147,1],[148,1],[151,1],[154,1],[155,1],[159,1],[163,1],[165,1],[172,1] 28 Bateria[2401-2700] d compressed Find ▼ W A Find All ☐ Match Case 🧣 Sheet 1/1 Default Sum=0 - - + 110%

41,5 kB