```
table.js

    □ Сору

                                                                                          8 Edit
 const { Row } = require('./row');
 const { Index } = require('./index');
 class Table {
     constructor(name, cols) {
         this.name = name;
         this.cols = cols;
         this.index = {};
         this.rows = [];
     addData(data) {
         if (data.length !== this.cols.length) {
             console.log("Column type not match");
         const rowData = new Row(Object.fromEntries(this.cols.map((col, i) => [col, data[i]])));
         this.rows.push(rowData);
         for (const column in this.index) {
             this.index[column].addDataInIndex(rowData);
         console.log(`row with ${JSON.stringify(rowData)} has been added`);
     fetchData(filter = {}) {
         if (Object.keys(filter).length === 0) {
             return this.rows.map(row => row.data):
```

```
prow.js

js

class Row {
    constructor(data) {
        this.data = data;
    }

    toString() {
        return JSON.stringify(this.data);
    }
}

module.exports = { Row };
```

```
const [column, value] = Object.entries(filter)[0];

if (this.index.hasOwnProperty(column)) {
    return this.index[column].getData(value);
} else {
    return this.rows.filter(row => row.data[column] === value);
}

updateData(data) {
    // To be implemented
}
```

```
addIndex(colName) {
    if (!this.cols.includes(colName)) {
        console.log("Column not present");
        return;
    } else if (this.index.hasOwnProperty(colName)) {
        console.log("Index already created over this column");
        return;
    }
    const index = new Index(colName);
    this.index[colName] = index;
    for (const row of this.rows) {
        index.addDataInIndex(row);
    }
    console.log(`Index created successfully over col ${colName}`);
}
```

```
print() {
     console.log(this.cols);
     console.log(this.rows);
     console.log(this.index);
}

module.exports = { Table };
```