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index.js

js

class Index {
  constructor(colName) {
    this.colName = colName;
    this.indexData = {};
  }

  addDataInIndex(row) {
    const value = row.data[this.colName];
    if (!this.indexData.hasOwnProperty(value)) {
      this.indexData[value] = [];
    }
    this.indexData[value].push(row);
  }

  getData(val) {
    return this.indexData[val] || [];
  }

  printIndex() {
    console.log(this.colName);
    console.log(this.indexData);
  }
}

module.exports = { Index };

```

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demo.js

js

const { Database } = require('./database');

class Demo {
  run() {
    const db = new Database('test');

    db.createTable('studentDetails', ['name', 'age', 'id']);

    db.addData('studentDetails', ['harsh', 23, 1]);
    db.addData('studentDetails', ['sohan', 25, 2]);
    db.addData('studentDetails', ['kevin', 23, 3]);
    db.addData('studentDetails', ['rohit', 27, 4]);

    db.addIndex('studentDetails', 'age');

    db.addData('studentDetails', ['rohan', 25, 5]);

    console.log(db.fetchData('studentDetails', { age: 25 }));

    // This will show column mismatch
    db.addData('studentDetails', ['rohit', 27, 4, 5]);
  }
}

if (require.main === module) {
  const demo = new Demo();
  demo.run();
}

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server.js

js

const { Demo } = require('./demo');

// Entry point for the app
function main() {
  const demo = new Demo();
  demo.run();
}

main();

```

✓ Update in demo.js

Add this at the bottom:

```

js

module.exports = { Demo };

```