SURLY I REPORT

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Division of Labor

Alex Petralia: Main Method Class, Parser Class, Database Class

Jayce Brewer: Relation.java, Attribute.java, Tuple.java

Jose Avalon: Base\_Commands.java, Icommand.java, Insert\_command.java, Relation\_command.java, Print\_command.java

Programming Language and why

Java: We all agreed we had the biggest knowledge base when it came to this language.

Libraries/Programming features used

imports:

java.io.File;  
java.io.PrintWriter;  
java.io.IOException;  
java.util.\*;

Deliverables

|  |  |
| --- | --- |
| **Checklist of deliverables** |  |
| Hardcopy of | I/II/III |
| This writeup | X |
|  |  |
| Zip file containing | I/II/III |
| This writeup | X |
| Test cases showing input/output | X |
| Source code | X |
| README.TXT \* | X |

Coverage Checklist

|  |  |  |
| --- | --- | --- |
| **version** | **Feature** | **Covered/Comment** |
| I | Relation | Covered |
| I | Insert | Covered |
| I | Print | Covered |
| I | Heap Storage | Covered |
| II | Destroy | N/A |
| II | Delete where … AND/OR | N/A |
| II | Select where … AND/OR | N/A |
| optional | Join, Project, Import/Export in XML, CATALOG, GUI, … | N/A |

Implementations

Relations:

Main method creates a File object from the user inputed file, it is then sent to the parser class which organizes the .txt file into one conjoined LinkedList of relations with special characters removed [eg: ‘),(# etc.]. The main method then passes this completed LinkedList of relations into the Database class.

Tuples:

Makes a linked list of the attributes and uses functions from the schema to check the integrity of the schema. Also uses some of the schema’s getters and setters to make this possible

Attributes:

A simple class that makes getters and setters for the Attributes

Insert:

There is an insert for the tuple class and the relationship class for when we want to insert either into the schema. The Relation class has an insert for inserting tuples. The Tuple class has an insert for inserting attributes.

Print:

Checks that each relationship exists and if they do, prints it’s name, then the, schema and then each tuple.

Things you did differently than the SURLY spec

### Things you would do differently if starting over now.

– better organization of data transferring from class to class in Java

– more explaining to each other how we are modifying our classes

### Did SURLY meet your objectives for this course?

–works well with how we implemented it in Java and made it easy, so yes.

### Suggestions on how to improve SURLY I/II assignment

–more visualization of the data models (Linked Lists)

–Sample outputs/formatting

–example edge cases to solve for

### Suggestions on how to improve the course?

–more examples of questions to be on exams/quizzes

### Any other comments?

–none so far