

Project1

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Goal

Make simple DBMS that processing some SQL on predefined tables. Its DB have Student, Class, Enroll tables. Its schemata are

- create table Student (int sid primary key, char(30) sname, int age, float gpa);
- create table Class (int cid primary key, char(30) cname);
- create table Enroll (int sid, int cid, float grade, primary key(sid, cid));

Following 'simplifiedb.h', complete 'simplifiedb.cc'.

This simple DBMS support following queries.

- INSERT: insert into <table> values (<values>)
- DELETE: delete from <table> where id = <id>
- SELECT: select * from student where sid <cmp> <sid>
- JOIN: select s.sname, c.name from student as s, class as c, enroll as e where s.sid = e.sid and c.cid = e.cid and e.grade <cmd> <grade>
- GROUP BY: select age, <agg>(gpa) from student group by age

And result is printed in screen(stdout).

How to compile & run

\$ make

\$./simpledb

References

Chapter 1, 3, 4, 5