Sample Homework

## 3.1

1. Use a monospace font for code and SQL answers (e.g., Lucida Sans Typewriter , Source Code Pro , or Courier (ugh!)). When writing SQL code, capitalize SQL keywords.

SELECT DISTINCT student.ID
FROM (student JOIN takes USING(ID))
 JOIN (instructor JOIN teaches USING(ID))
 USING (course\_id, sec\_id, semester, year)
WHERE instructor\_name = “Stonebraker”;

1. Use a monospace font and proper JSON formatting for MongoDB answers.

{
 name: "Jane Doe",
 title: "CIO",
 address {
 street: "Baltic Ave.",
 city: "Atlantic City",
 State: "NJ"
 }
}

## 3.2

For Relational Algebra solutions LaTeX or Microsoft Word (with equation editor) are good choices.

1. $Π\_{title}(σ\_{dept\\_name=^{"}Comp.Sci."⋀credits=3}\left(course\right))$
2. $Π\_{ID}(σ\_{ID=^{"}Einstein^{"}}\left(takes⋈ρ\_{\left(IID,course\\_id,section\\_id,semester,year\right)}teaches\right))$