

CSE 444 - Section 1

SQL Introduction

02 April 2009

Sections / TAs / Office Hours

- ❖ Quiz sections: Th 9.30 - 10.20, 10.30-11.20. MGH 242
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 - ❖ Office hours: Wednesday, 11.00 - 12.00 - CSE 216
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Today's Plan

- ❖ Introductions
- ❖ How to connect to SQL Server (and change your password)
- ❖ SQL Introduction - revisited
- ❖ Project 1
- ❖ Questions?

Introductions

- ❖ My name is _____.
- ❖ I am a freshman / sophomore / junior / senior.
- ❖ Choose at least ONE:
 - ❖ I'm taking this class because _____.
 - ❖ I'm most excited to learn about _____.
 - ❖ The stupidest thing I've ever done is _____.

Starting with SQL Server

- * Instructions can be found at:
 - * <http://www.cs.washington.edu/education/courses/cse444/CurrentQtr/resources/SQLServerInstructr.html>

SQL Introduction - revisited

SELECT columns that you want to see

FROM tables that you're interested in

WHERE conditions

GROUP BY (coming soon)

HAVING (coming soon)

ORDER BY columns you want to sort by

Example - from Slide 15 - Lec 2

| PName | Price | Category | Manufacturer |
|-------------|----------|-------------|--------------|
| Gizmo | \$19.99 | Gadgets | GizmoWorks |
| Powergizmo | \$29.99 | Gadgets | GizmoWorks |
| SingleTouch | \$149.99 | Photography | Canon |
| MultiTouch | \$203.99 | Household | Hitachi |

| CName | StockPrice | Country |
|------------|------------|---------|
| GizmoWorks | 25 | USA |
| Canon | 65 | Japan |
| Hitachi | 15 | Japan |

```
SELECT    PName, Price
FROM      Product, Company
WHERE     Manufacturer=CName AND
           Country='Japan' AND
           Price <= 200
```

Semantics of SQL Queries

| PName | Price | Category | Manufacturer |
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SELECT *  
FROM Product, Company
```



```

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FROM        Product, Company

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| PName | Price |
|-------------|----------|
| SingleTouch | \$149.99 |

More Examples

- ❖ Slide 20 - Lecture 2 - *Do you understand this?*
- ❖ Exercises to complete:
 1. All gadgets made by an American company.
 2. Slide 30 - Lecture 2. Unnest!
 3. Find all products made by Canon.
 4. The product, and price of all products made by any company in Sweden.
 5. Find the number of products made by Canon.
 6. Find the name of all companies that make some product that is *not* a gadget.
 7. All categories that have at least two companies which make products in that category.

Project 1 - IMDB

- * <http://www.cs.washington.edu/education/courses/cse444/CurrentQtr/project/project1/project1.html>