CSE 344 Introduction to Data Management

Section 2: More SQL

Importing Files

First, make the table.

Then, import the data.

.mode csv

.import ./population.csv Population

.import ./gdp.csv GDP

.import ./airport.csv Airport

SQL 3-valued logic

SQL has 3-valued logic

FALSE = 0 (ex. price<25 is FALSE when price = 99)

UNKNOWN = 0.5 (ex. price <25 is UNKNOWN when price=NULL)

TRUE = 1 (ex. price<25 is TRUE when price = 19)

SQL 3-valued logic

C1 AND C2

means min(C1,C2)

C1 OR C2

means max(C1,C2)

not C

means means 1-C

The rule for SELECT ... FROM ... WHERE C is the following:

if C = TRUE then include the row in the output

if C = FALSE or C = unknown then do not include it

A brief example

Compute the value of the condition

```
INSERT INTO product(pname,price,category,manufacturer) VALUES ('NullProduct', 19.00, null, null);
```

```
SELECT *
FROM product
WHERE (price < 25) AND (category = 'gadget') OR
(manufacturer = 'Apple');
```

Review: Order BY

ORDER BY column_name DESC

GROUP BY

1. Compute the FROM and WHERE clauses.

2. Group by the attributes in the GROUPBY

- 3. Compute the SELECT clause:
- grouped attributes and aggregates.

Don't forget!

LIMIT

COUNT(*)

DISTINCT

AS

SUM

MAX/MIN