

NOBLE DESKTOP

SQL BOOTCAMP

PATTERN MATCHING

- Used on character columns
- Specify part of text, leave rest open

EXAMPLES

- How many users were named "Bob"?
- How many customers had AOL email addresses?

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- How many users were **named "Bob"**?
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CHARACTER TYPES

- char(n)
- varchar(n)
- text

PATTERN MATCHING: WILDCARD

```
SELECT * FROM products  
WHERE name LIKE 'B%';
```

WILDCARD

```
SELECT * FROM products  
WHERE name LIKE 'B%';
```

wildcard



BOOLEANS

```
SELECT * FROM products  
WHERE name LIKE 'B%'  
AND price < 10;
```

BOOLEANS

```
SELECT * FROM products  
WHERE name LIKE 'B%'  
OR price < 10;
```

BOOLEANS

```
SELECT * FROM products  
WHERE NOT name LIKE 'B%';
```

EXERCISES

AGGREGATION FUNCTIONS

- Boil down the resulting data
- Commonly used: SUM(), MAX(), MIN(), AVG()

EXAMPLES

- What was the most any user spent?
- How many customers were from Florida?

EXAMPLES

- What was **the most** any user spent?
- How many customers were from Florida?

EXAMPLES

- What was **the most** any user spent?
- **How many** customers were from Florida?

MAX

```
SELECT MAX(price) FROM  
purchase_items;
```

MIN

```
SELECT MIN(price) FROM  
purchase_items;
```

COUNT

```
SELECT COUNT(state)  
FROM purchases WHERE state='FL'
```

COUNT

```
SELECT COUNT(state)  
FROM purchases WHERE state='FL'
```

Counts ALL rows! (not
just unique values)

SUM

```
SELECT SUM(price) from purchase_items
```

AVG

```
SELECT AVG(price) from purchase_items
```

EXERCISES