

# Final Project M4

Monday, April 10, 2017



# Agenda

- Reading Quiz
- Review M4 Requirements
- M4 Support Session

# Q1: What is the value of jelly?

select color, pattern, flavor from Jar;

color	pattern	flavor
red	dotted	liquorice
navy	striped	blueberry
cornflower blue	wavey	cotton candy
cloud	striped	pina colada
eggshell	wavey	cream
red	striped	cherry
blue	striped	birthday cake

select **count(distinct color)** as **jelly**  
from Jar;

- a) 4
- b) 5
- c) 6
- d) 7

## Q2: What is the value of jelly?

select color, flavor from Jar;

color	flavor
red	liquorice
navy	blueberry
cornflower blue	cotton candy
cloud	pina colada
eggshell	cream
red	cherry
blue	birthday cake

select **btrim**(flavor) as **jelly**  
from Jar  
where color = 'blue';

a) 'birthday cake'   b) ' birthday cake '   c) 'birthdaycake'   d) 'birthday cake '

### BTRIM Function

The BTRIM function trims a string by removing leading and trailing blanks or by removing characters that match an optional specified string.

#### Syntax

```
BTRIM(string [, matching_string ] )
```



#### Arguments

*string*

The first input parameter is a VARCHAR string.

*matching\_string*

The second parameter, if present, is a VARCHAR string.

### Q3: What is the value of jelly?

select color, flavor from Jar;

color	flavor
red	liquorice
navy	blueberry
cornflower blue	cotton candy
cloud	pina colada
eggshell	cream
red	cherry
blue	birthday cake

select **initcap**(flavor) as **jelly**  
from Jar  
where color = 'cloud';

- a) 'pina colada'   b) 'Pina Colada'   c) 'Pina colada'   d) 'PINA COLADA'

### INITCAP Function

Capitalizes the first letter of each word in a specified string. INITCAP supports UTF-8 multibyte characters, up to a maximum of four bytes per character.

#### Syntax

```
INITCAP(string)
```



#### Argument

*string*

The input parameter is a CHAR or VARCHAR string.

## Q4: What is the value of jelly?

select color, flavor from Jar;

color	flavor
red	liquorice
navy	blueberry
cornflower blue	cotton candy
cloud	pina colada
eggshell	cream
red	cherry
blue	birthday cake

select **split\_part**(flavor, ' ', 1) as **jelly**  
from Jar where color = 'cornflower blue';

- a) 'cottoncandy'   b) 'candy'  
c) 'cotton candy'   d) 'cotton'

### SPLIT\_PART Function

Splits a string on the specified delimiter and returns the part at the specified position.

#### Syntax

```
SPLIT_PART(string, delimiter, part)
```



#### Arguments

*string*

The string to be split. The string can be CHAR or VARCHAR.

*delimiter*

The delimiter string.

If *delimiter* is a literal, enclose it in single quotes.

*part*

Position of the portion to return (counting from 1). Must be an integer greater than 0. If *part* is larger than the number of string portions, SPLIT\_PART returns an empty string.

## Q5: What is the value of released\_date?

```
select flavor, release_year, release_month, release_day from Jar;
```

flavor	release_year	release_month	release_day
liquorice	2017	05	01
blueberry	2017	05	01
cotton candy	2016	07	01
pina colada	2016	07	01
cream	2017	05	01
cherry	2015	06	01
birthday cake	2010	06	01

### TO\_DATE

TO\_DATE converts a date represented in a character string to a DATE data type.

The second argument is a format string that indicates how the character string should be parsed to create the date value.

### Syntax

```
TO_DATE (string, format)
```



```
select to_date(release_year || '-' || release_month || '-' || release_day, 'YYYY-MM-DD')  
as released_date from Jar where flavor = 'cherry';
```

a) '01-06-2015'   b) '2015-06-01'   c) '06-01-2015'   d) '2015-01-06'

# Final Project Data Integration

## **M4 topics:**

- entity matching (Artist, Track/Song, Release)
- user defined functions (UDFs)
- alter table add ccolumn
- update table set ccolumn
- create-table-as-select