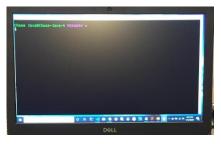
Today < >	January 2020	0		Q 🔅 M	lonth ▼	<b>G</b> Suite <b>D</b>
SUN 29	MON 30	TUE 31	WED Jan 1	THU 2	FRI 3	SAT 4
5	6	7	8	9 • 6:15am Flight to Den • 10am Flight to Colum	10	11
12	13 Tech Start Begins	14	15	16 V&D	17 Expressions	18
19	MLK Day	21 Loops	22 Command Line	23 Objects & Strings	24 Collections 1	25
26	27 Collections 2	28 Intro Classes	29 Encapsulation	30	31 Polymorphism 3:30pm Meet Matt &	Feb 1

**G** Suite **D** February 2020 Q ? **(\$)** ::: Today Month ▼ SUN MON TUE WED THU FRI SAT 26 27 28 29 30 31 Feb 1 **Collections 2** Intro Classes Encapsulation Polymorphism • 3:30pm Meet Matt & 2 3 5 6 7 8 Super Bowl **Unit Testing Exception Handling** 12 9 10 11 13 14 15 File I/O 2 Intro to DB Aggregate Functions 19 16 17 18 20 21 22 **SQL Joins** Insert/Update/Delete **DB Design** 23 24 25 26 27 28 29 **CSS Selectors** 

**G** Suite **D**  March 2020 ? ::: Today Month ▼ SUN TUE WED MON THU FRI SAT Mar 1 2 3 4 5 6 7 CSS Flexbox MVC Part 1 MVC Part 2 MVC Part 3 HTTP GET • 12:30pm Meredith:Da 10 11 12 13 14 8 9 HTTP POST 15 17 16 18 19 20 21 Tech Start Ends 22 23 24 25 26 27 28 29 30 31 2 3 Apr 1 4



**Cohort Laptop** 

Java \_ victoria-hinkle-moore

pull upstream master

# push origin master

Submit your exercise work

Bitbucket

JPMC Tech Start

# Repositories



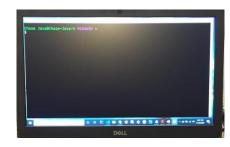
#### Repository



victoria-hinkle-moore

Cohort Repo: first-lastname

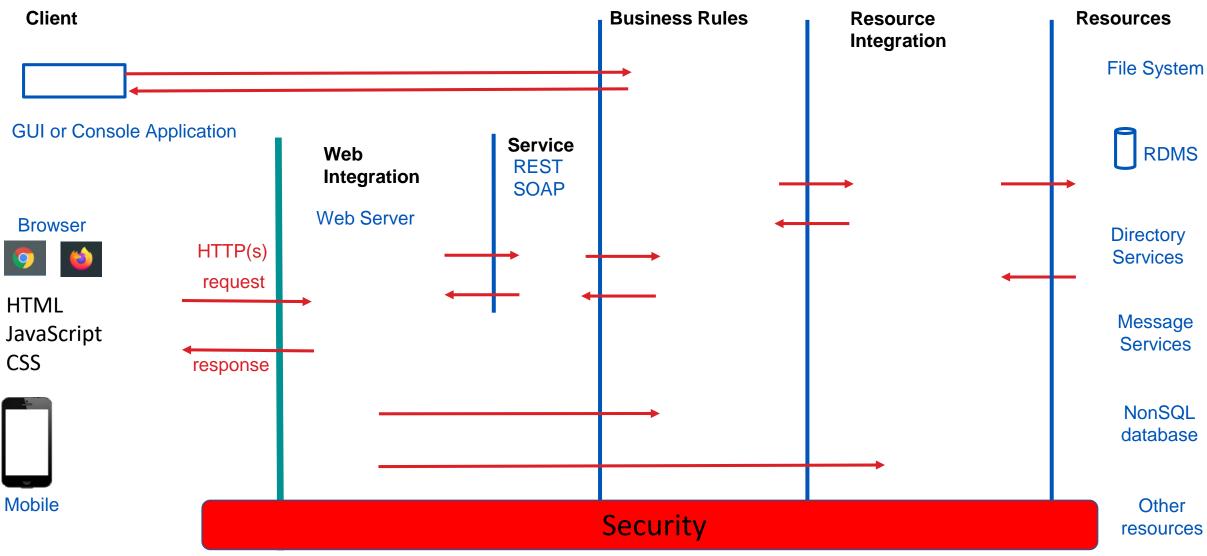
fork



**Instructor Laptop** 



push origin master



Authentication, Authorization, Encryption, CORS, Injection, ...

Type	Size in Bytes	Range
byte	1 byte	-128 to 127
short	2 bytes	-32,768 to 32,767
int	4 bytes	-2,147,483,648 to 2,147,483, 647
long	8 bytes	-9,223,372,036,854,775,808 to 9,223,372,036,854,775,807
float	4 bytes	approximately ±3.40282347E+38F (6-7 significant decimal digits) Java implements IEEE 754 standard
double	8 bytes	approximately $\pm 1.79769313486231570E+308$ (15 significant decimal digits)
char	2 byte	o to 65,536 (unsigned)
boolean	not precisely defined*	true or false

Precedence	Operator	Type	Associativity	
15	0 II	Parentheses Array subscript Member selection	Left to Right	
14	**	Unary post-increment Unary post-decrement	Right to left	
13	++ - + ! - (type)	Unary pre-increment Unary pre-decrement Unary plus Unary minus Unary logical negation Unary bitwise complement Unary type cast	Right to left	
12	/ %	Multiplication Division Modulus	Left to right	
11	+	Addition Subtraction	Left to right	
10	<c &gt;&gt; &gt;&gt;&gt;</c 	Bitwise left shift Bitwise right shift with sign extension Bitwise right shift with zero extension	Left to right	
9	< <= > >= instanceof	Relational less than Relational less than or equal Relational greater than Relational greater than or equal Type comparison (objects only)	Left to right	
8	== !=	Relational is equal to Relational is not equal to	Left to right	
7	8:	Bitwise AND	Left to right	
6	Α.	Bitwise exclusive OR	Left to right	
5		Bitwise inclusive OR	Left to right	
4	88	Logical AND	Left to right	
3	- 11	Logical OR	Left to right	
2	?:	Ternary conditional	Right to left	
1 Subtraction ass Multiplication a /- Division assigni		Assignment Addition assignment Subtraction assignment Multiplication assignment Division assignment Modulus assignment	Right to left	

String String Stack Heap Two One @2 0 @3 @2 @3 String Adam @1 @5 Customer @5 name **Static Allocations for Classes** main 35 age args @1 @4 @4 customer1

#### return datatype method name **Anatomy of a Method** primitive reference (Classname, ...) public int returnNotOne(int number, Customer customer) void // statements – end with a semi colon method arguments // blocks – conditional and looping return number + 1; datatype argName block for concrete method

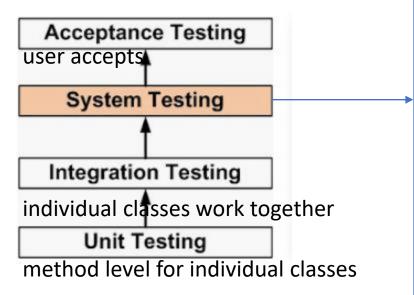
modifiers (others include static and final)

#### scope

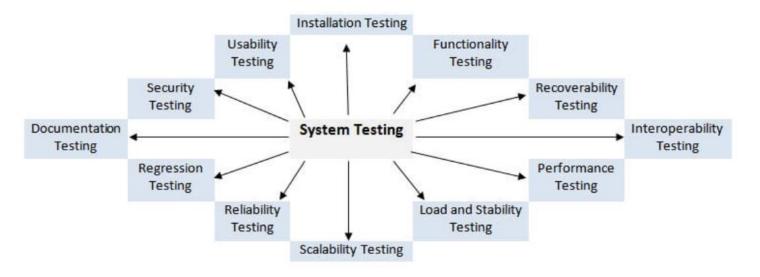
- private class itself
- default (no modifier) plus other classes in same package
- protected plus subclasses in another package
- public plus all other classes

- 1. Default No keyword required
- 2. Private
- 3. Protected
- 4. Public

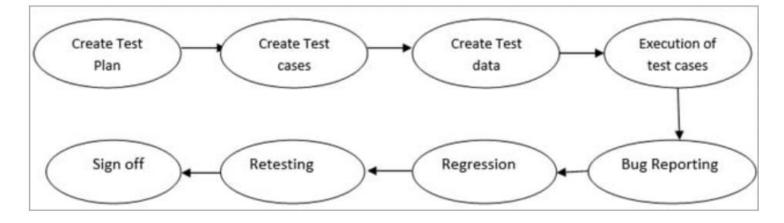
	default	private	protected	public
Same Class	Yes	Yes	Yes	Yes
Same package subclass	Yes	No	Yes	Yes
Same package non- subclass	Yes	No	Yes	Yes
Different package subclass	No	No	Yes	Yes
Different package non- subclass	No	No	No	Yes

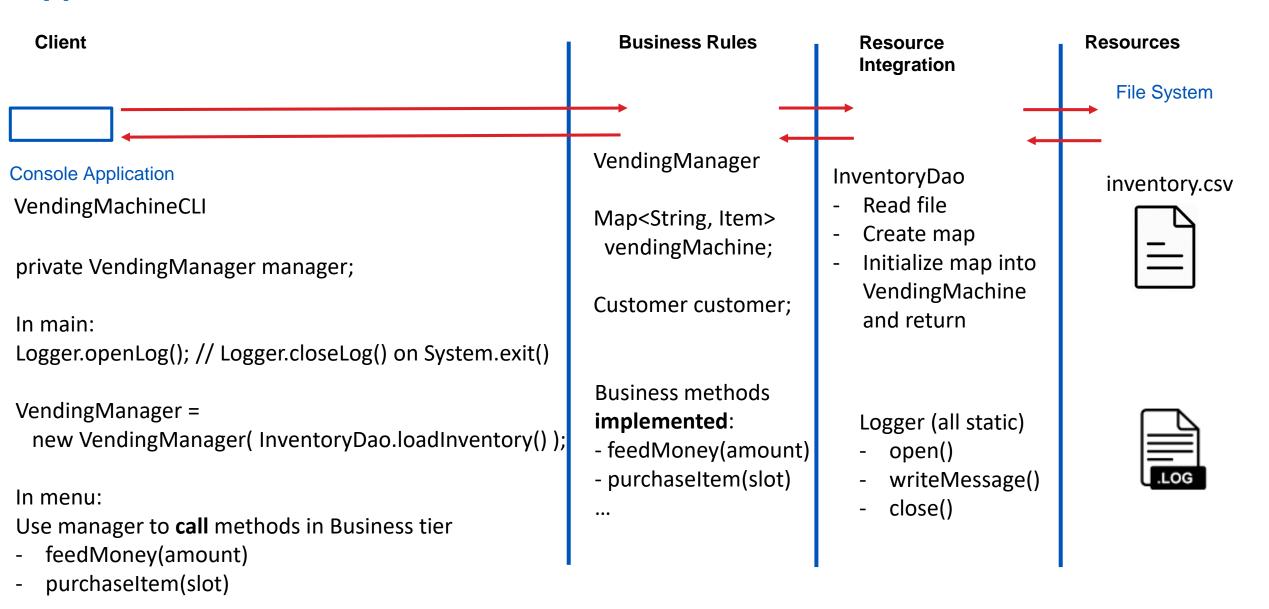


# **Types**



#### **Process**





#### Columns

Primary Key Column

Rows

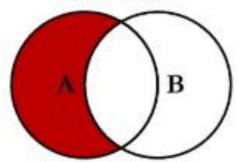
Code	Name	Continent	Region
CYM	Cayman Islands	North America	Caribbean
CHL	Chile	South America	South America
сок	Cook Islands	Oceania	Polynesia
CRI	Costa Rica	North America	Central America
DJI	Djibouti	Africa	Eastern Africa
DMA	Dominica	North America	Caribbean
DOM	Dominican Republic	North America	Caribbean
ECU	Ecuador	South America	South America
EGY	Egypt	Africa	Northern Africa
SLV	El Salvador	North America	Central America
ERI	Eritrea	Africa	Eastern Africa
ESP	Spain	Europe	Southern Europe
ZAF	South Africa	Africa	Southern Africa
ETH	Ethiopia	Africa	Eastern Africa
FLK	Falkland Islands	South America	South America
FJI	Fiji Islands	Oceania	Melanesia
PHL	Philippines	Asia	Southeast Asia
FRO	Faroe Islands	Europe	Nordic Countries
GAB	Gabon	Africa	Central Africa

# Country Table

# B

# **SQL JOINS**

SELECT < select\_list> FROM TableA A LEFT JOIN TableB B ON A.Key = B.Key



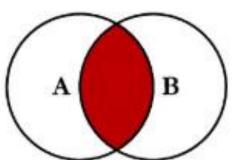
SELECT < select\_list>

LEFT JOIN TableB B

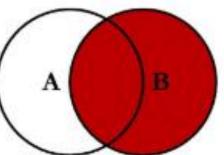
FROM TableA A

ON A.Key = B.Key

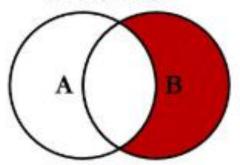
SELECT <select\_list> FROM TableA A



INNER JOIN TableB B ON A.Key = B.Key

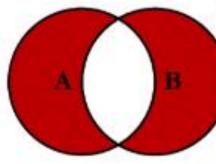


SELECT <select list> FROM TableA A RIGHT JOIN TableB B ON A.Key = B.Key

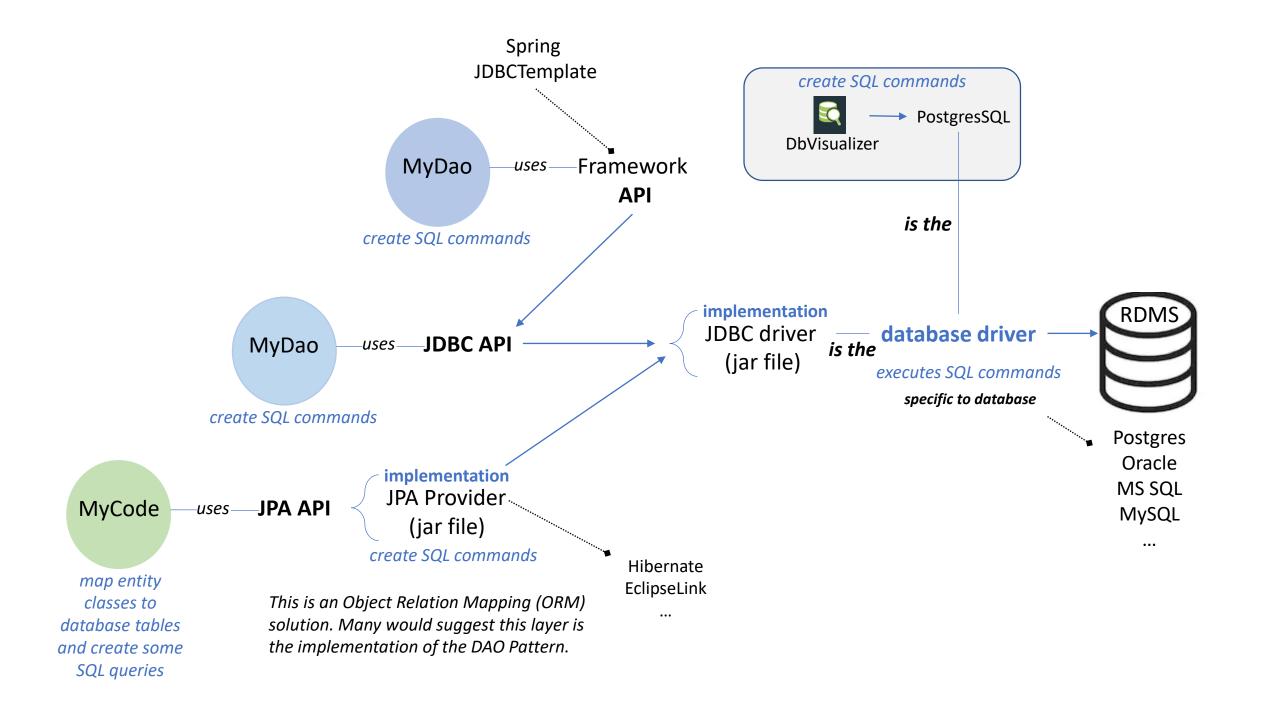


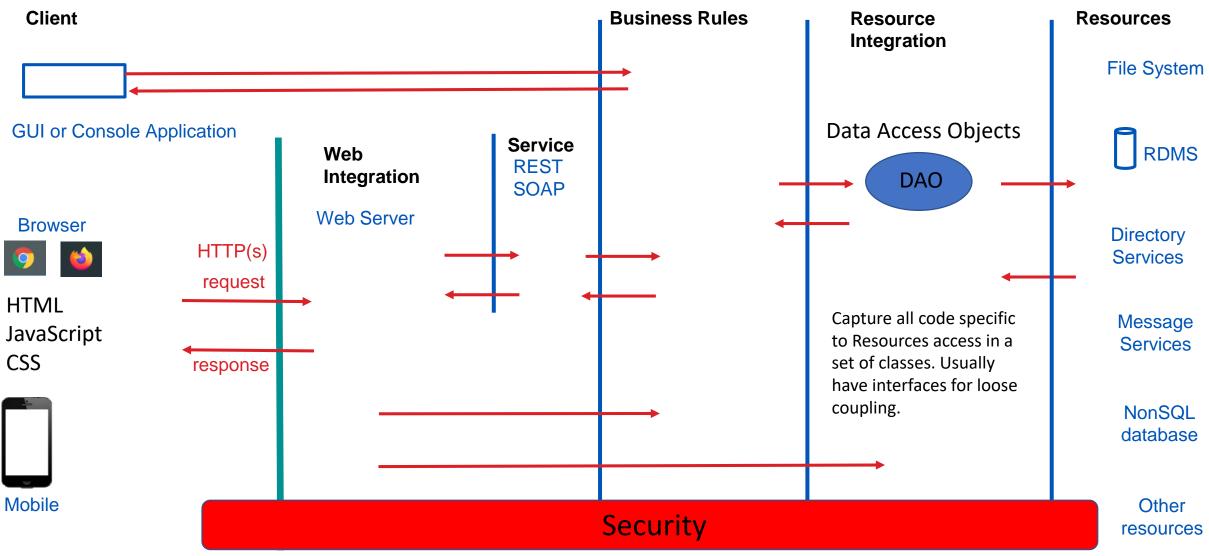
SELECT < select\_list> FROM TableA A RIGHT JOIN TableB B ON A.Key = B.Key WHERE A.Key IS NULL

WHERE B.Key IS NULL. SELECT <select list> FROM TableA A FULL OUTER JOIN TableB B ON A.Key = B.Key

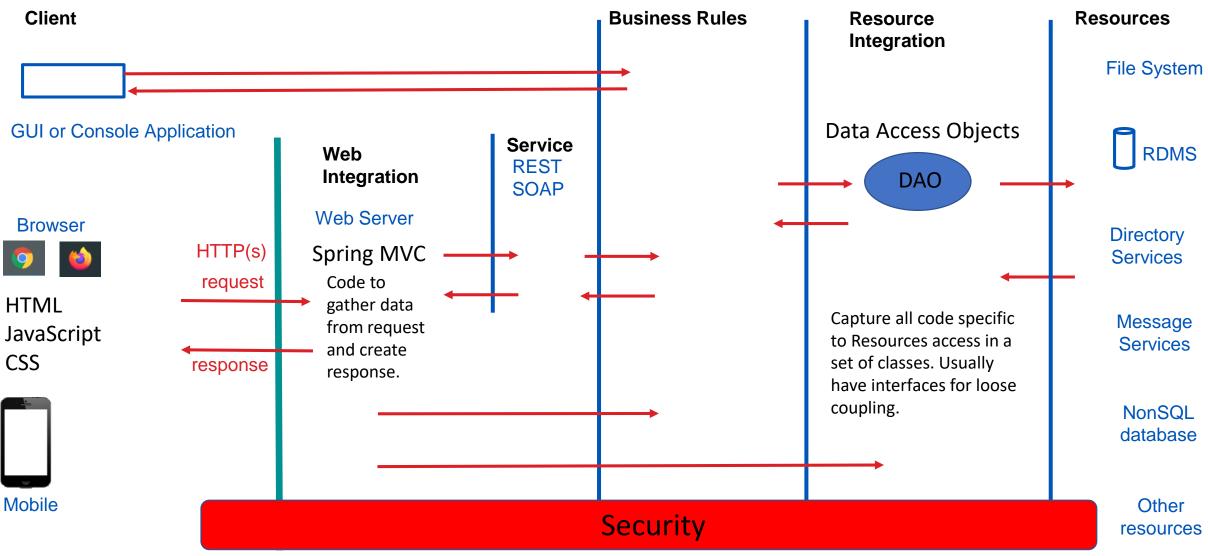


SELECT <select\_list> FROM TableA A FULL OUTER JOIN TableB B ON A.Key = B.Key WHERE A.Key IS NULL OR B.Key IS NULL





Authentication, Authorization, Encryption, CORS, Injection, ...



Authentication, Authorization, Encryption, CORS, Injection, ...

#### **URL** identifies resource <a href="http://localhost:8080/myapp/css/site.css">http://localhost:8080/myapp/css/site.css</a>

