Appendix A: JPA and Spring Annotations

```
@Entity
@Table(name="table name", schema="cs544")
@Id(name="column name")
@GeneratedValue(strategy=GenerationType.AUTO)
Note: There are three more "generation types".
@Column(name="column name", length=xxx, nullable=false)
@Column(table="table name")
@OrderColumn (name="column name")
@OrderBy("attributeName [ASC|DESC]") -
@Transient
@OneToMany (mappedBy="attributeName", cascade=CascadeType.XXX)
@ManyToOne(mappedBy="attributeName", cascade=CascadeType.XXX)
@OneToOne (mappedBy="attributeName", cascade=CascadeType.XXX)
@ManyToMany(mappedBy="attributeName", cascade=CascadeType.XXX)
Note: XXX = [ALL, DETACH, MERGE, PERSIST, REFRESH, REMOVE]
Also, if you have more than one cascade type you can do:
cascade={CascadeType.XXX, CascadeType.YYY, ...}
@JoinColumn(name="column name")
@JoinTable(name="table name")
@MapKey(name="attributeName") - used to assign a key attribute for a Map
@Inheritance(strategy=InheritanceType.XXX)
Note: XXX = [JOINED, SINGLE TABLE, TABLE PER CLASS]
@SecondaryTable(
     name="table name",
     pkJoinColumns=@PrimaryKeyJoinColumn(name="column name")
)
@Embedded
@Embeddable
@EmbeddedId
@ElementCollection
@CollectionTable(name = "table name") -
For collections of primitive values or collections of embeddables
@Version @Enumeration
Spring
@Bean, @Value, @Component, @Controller, @Service, @Repository, @Autowired,
@Configuration
@PostConstruct, @PreDestroy, @Transactional, @ComponentScan(basePackages =
"edu.miu.common, edu.miu.compro")
```