Friday, July 8, 2022 9:47 AM

MANY to MANY MAPPING ----------

Course - courseId , course name , courseDesc, duration

id	Name	Desc	Duration
1	C	Programming	40
2	DB	Backend SQL	60
3	Java	Core	70

Course_students (JOIN TABLE)

courseId	studentId
1	1
1	2
2	1
2	2
2	3
3	1
3	3

Student - studentId, studentName, email

Id	Name	Email
1	PPP	p@123
2	AAA	a@234
3	BBB	b@345

Mapping Related Annotations
- @OneToOne
- @OneToMany
- @ManyToOne
- @ManyToMany

Parent table has a mappedBy attribute in the annotation
Child table always gets the foreign key

If we CASCADE then AUTOMATIC insertion of child happens while we insert parent
If we don't cascade then we have to explicitly insert parent , get the primary key , populate child and insert child

One to One	Parent has a single reference to child and child has a single reference to Parent
One To Many / Many to one	ONE side has a list of child of references , MANY side has a single parent reference
MANY To MANY	Each side has a list of other side references

AOP in Spring Framework = Aspect Oriented Programming

Use INTERCEPTORS for CROSS CUTTING Features !!!!

Every Project has a DOMAIN !!!! ----
----------HealthCare , Automobile , Finance, Banking , Insurance , Pharma , Educational , Commerce , FOOD , etc

--- Every DOMAIN has its own KEYWORDS and concepts and processes= DOMAIN SPECIFIC LOGIC /FEATURES !!!
---ALL DOMAINS has common features ----- LOGIN , LOAD Balancing , Transaction Management , Multi threading, Fault tolerance , LOGGING Messages ---------- CROSS CUTTING CONCERNS /FEATURES

Interceptor ---------- PROXY ----------

At **run time** the PROXY intercepts the call

PERFORMS the cross cutting features

May redirect the call to the ORIGINAL or MAY respond to the caller

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AOP =

Aspect

Advices

Point Cuts

Join Points ---------- METHOD EXECUTION

Method CALL ----------->method() {……} } Original object

Advices = Tells WHEN to INTERCEPT !!!!!!

Before method executes ------ Before advice

After method executes ----- After advice

Before plus After -------- Around advice

After Exception ---- AfterThrows advice

Point Cut ----------WHOM to Intercept

A general statement or expression that tells which method/methods must be intercepted

* *.* } all methods of all packages are to be intercepted

study.beans.Account.*(..) } all methods of Account class are to be intercepted

study.beans.Account.getBalance(..) } all OVERLOADED verisons of getBalance in account class have to be intercepted

study.beans.Account.getBalance(int) } only the getBalance of study.beans.Account that accepts int paramaeter must be intercepted

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