Name: **Hibernate Configuration with Annotations** Date: **06-09-2018**

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| **KEYWORD** | | **DETAIL** |
| **Hibernate Configuration file** | | * dialect: (thổ ngữ) khai báo để hibernate biết dùng ngôn ngữ đúng để giao tiếp * show\_sql: hiển thị truy vấn sql * current\_session\_context\_class: When you create a hibernate session using any of the sessionFactory.openSession(...) methods the session factory will 'bind' the session to the current context. The default context is 'thread' which means the sesion factory will bind the session to the thread from which openSession(...) is called.   This is useful because you can later call sessionFactory.getCurrentSession() which will return the session that is bound to the currently running thread.   You can use other predefined current\_session\_context\_class values such as 'jta' which will bind the session to the currently running JTA transaction (if you're running in an application server that supports JTA this is really useful). Or you can write your own implementation of org.hibernate.context.CurrentSessionContext and use that implementation to manage the current session context (not really advisable unless you absolutely need to). |
| **Hibernate Annotations** | | * entity class: java class that is mapped to a database table * @Entity @Table(name=”table name”): map class to table * @Id, @column(name=”column name”): map field to column, @Id primary key |
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| **SUMMARY** | Sử dụng file xml để config hibernate project  Học các annotations cơ bản như @Entity, @Table, @Id, @Column | |

Name: **Hibernate CRUD** Date: **2018-06-09**

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| **KEYWORD** | | **DETAIL** |
| **Create and Save**  **Java Object** | | * SessionFactory factory = new Configuration().configure("hibernate.cfg.xml").addAnnotatedClass(Student.class).buildSessionFactory(); * factory.getCurrentSession(); * session: beginTransaction, save, getTransaction().commit |
| **Primary keys** | | * @GeneratedValue(strategy= `type`): tự động tạo primary key value |
| **Read and query** | | -session.get(`entity class`,`id`)  -refactor to method: bôi đen kích phải chọn extract  -session.creatQuery(“HQL”).getResultList(); |
| **Update** | | * session.get() => setValue to object => transaction commit   Hoặc sử dụng truy vấn   * session.createQuery("update Student set email='foo@gmail.com' ").executeUpdate(); |
| **Delete** | | * session.get() -> session.delete(“student have already get) => commit * session.createQuery("delete from Student where id=3 ").executeUpdate(); |
| **SUMMARY** | Các phương thức của Hibernate cung cấp để CRUD 1 entity | |

Name: **23 Hibernate Advanced Mappings - @OneToOne** Date: **11-06-2018**

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| **KEYWORD** | | **DETAIL** |
| **Map one to one** | | -@OneToOne( cascade=`cascade type`) : chỉ mối quan hệ  -@JoinColumn(name=`column name`): trỏ tới column chứa khóa ngoại  - Field là class cần map. |
| **Entity LifeCycle** | |  |
| **uni-direction** | | * Chỉ một entity khai báo entity còn lại : entity chứa khóa ngoại sẽ khai báo entity chứa khóa chính * @OneToOne(cascade = CascadeType.ALL) * @JoinColumn(name = "column chứa khóa ngoại") |
| **Bi-direction** | | * Thêm vào entity thứ 2   @OneToOne(mappedBy = "field contain object entity 2 in entity 1",  cascade = {CascadeType.*DETACH*, CascadeType.*MERGE*, CascadeType  .*PERSIST*, CascadeType.*REFRESH*})  // không khai báo CascadeType.Remove để chỉ delete ở entity 2. |
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Name: **One to many** Date: **Topic date**

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| **Overview** | | * Requiment: Don’t cascade delete: CascadeType do not use remove * Entity 1 contain many entity 2 * Entity 2 field in entity 1 must contain in a List<Entity2> |
| **@ManyToOne**  **@JoinColumn** | | * Khai báo trên Entity2 (entity chứa khóa ngoại)   @ManyToOne(cascade = {CascadeType.*PERSIST*, CascadeType.*MERGE*,  CascadeType.*DETACH*, CascadeType.*REFRESH*}) @JoinColumn(name = "column chứa khóa ngoại")  Private Entity1 entity1 |
| **@OneToMany** | | * Khai báo trên Entity 1   @OneToMany(mappedBy = " field contain object entity 1 in entity 2",  cascade = {CascadeType.*PERSIST*,CascadeType.*MERGE*,  CascadeType.*DETACH*, CascadeType.*REFRESH*})  **private** List<Entity2> entity2s; |
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Name: **Eager vs lazy Loading** Date: **2018-06-19**

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| **Fetch Type** | | * Loại load dữ liệu. |
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