

jpa_jakarta_onetable_v2.pdf

Task1

<input type="checkbox"/>	<input type="text" value="Q"/>	* deviceId int(11) <input type="text"/>	description varchar(255) <input type="text"/>
<input type="checkbox"/>		Filter	Filter
<input type="checkbox"/>	>	1	Dell Latitude 7490

Task2

```
public void getDevice(int id) {  
    EntityManager em = emf.createEntityManager();  
    em.getTransaction().begin();  
  
    Device device = em.find(Device.class, id);  
    System.out.println(device);  
  
    em.getTransaction().commit();  
    em.close();  
}
```

```
Hibernate: select d1_0.deviceId,d1_0.description from DEVICE d1_0 where d1_0.deviceId=?  
Device [deviceId=1, description=Dell Latitude 7490]
```

Task3

```
public boolean updateDeviceDescription(int id, String description) {  
    EntityManager em = emf.createEntityManager();  
    em.getTransaction().begin();  
  
    Device device = em.find(Device.class, id);  
    if (device == null) {  
        em.getTransaction().commit();  
        em.close();  
        return false;  
    }  
  
    Device newDevice = new Device(description);  
    newDevice.setDeviceId(device.getDeviceId());  
  
    em.merge(newDevice);  
    em.getTransaction().commit();  
    em.close();  
}
```

```
        return true;
    }
```

```
Hibernate: update DEVICE set description=? where deviceId=?
Hibernate: select d1_0.deviceId,d1_0.description from DEVICE d1_0 where d1_0.deviceId=?
Device [deviceId=1, description=Dell Latitude 7490 - updated]
```

		* deviceId int(11)	description varchar(255)
		Filter	Filter
	>	1	Dell Latitude 7490 - updated

Task4

```
@Id
@GeneratedValue(strategy=GenerationType.IDENTITY)
@Column(name="deviceId", nullable=false)
private int deviceId;
```

Task5

```
public void deleteDevice(int id) {
    EntityManager em = emf.createEntityManager();
    em.getTransaction().begin();

    Device device = em.find(Device.class, id);
    if (device != null) {
        em.remove(device);
    }

    em.getTransaction().commit();
    em.close();
}
```

```
Hibernate: delete from DEVICE where deviceId=?
Hibernate: select d1_0.deviceId,d1_0.description from DEVICE d1_0 where d1_0.deviceId=?
null
```