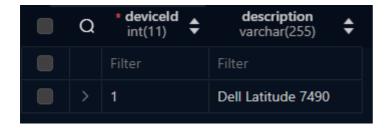
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jpa_jakarta_onetable_v2.pdf

Task1



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();
```

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```
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]
```



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
```