Payroll On Cloud

A document for setting the configuration on cloud

I. Maven dependencies added

At pom.xml

```
<dependency>
    <groupId>com.sap.cloud.db.jdbc</groupId>
    <artifactId>ngdbc</artifactId>
    <version>2.4.76</version>
</dependency>

</dependencies>
```

Link: SAP HANA JDBC Driver

Provides connectivity to HANA Databases in Java applications.

II. Spring and hibernate configurations to generate DDL scripts and Tables using entity classes

Hbm2ddl property

- *validate*: validate the schema, makes no changes to the database.
- *update*: update the schema.
- *create*: creates the schema, destroying previous data.
- *create-drop*: drop the schema when the SessionFactory is closed explicitly, typically when the application is stopped.
- *none*: does nothing with the schema, makes no changes to the database

At springConfig.xml

```xml
    class="com.mchange.v2.c3p0.ComboPooledDataSource"
    destroy-method="close">
    <property name="driverClass" value="com.sap.cloud.db.jdbc" />
    <property name="jdbcUrl" value="jdbc:sap://vadbirn.nwtrial.od.sap.biz:30152/?autocommit=false"/>
    <property name="user" value="PAYROLLUSER" />
    <property name="password" value="PayrollUser123" />

    <!-- these are connection pool properties for C3P0 -->
    <property name="minPoolSize" value="5" />
    <property name="maxPoolSize" value="20" />
    <property name="maxIdleTime" value="30000" />
    <property name="initialPoolSize" value="5" />

</bean>

<!-- Step 2: Setup Hibernate session factory -->
<bean id="sessionFactory"
    class="org.springframework.orm.hibernate5.LocalSessionFactoryBean">
    <property name="dataSource" ref="myDataSource" />
    <property name="packagesToScan"
        value="com.entities" />
    <property name="hibernateProperties">
        <props>
            <prop key="hibernate.dialect">org.hibernate.dialect.SAPDBDialect</prop>
            <prop key="hibernate.show_sql">true</prop>
            <prop key="hibernate.hbm2ddl.auto">create-drop</prop>

        </props>
    </property>
</bean>
```

NB: use the SAPDBDialect to create the tables on SAP HANA DB

III. At your SAP HANA DB instance login as PAROLLUSER

- Create your schema <u>for example</u> payrollschema
- SQL --> CREATE SCHEMA payrollschema;
- Then make it as you default schema
- SQL -->SET SCHEMA payrollschema;

IV. At SAP HANA Web-based Development Workbench: Catalog

Choose new sequence then generate the sequence of generating the index of primary keys at your schema