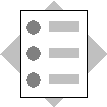
Hands on Part:

you are required to do two parts to receive points for the hands-on part.



1. Run thru the two zip files [Curriculum\_1\_pdf\_student.zip](https://vpn1.fh-heidelberg.de/+CSCOE+/files/files_retr/init/html/file/cifs%3A%2F%2F666975712D3031392E7170662E73752D7572767172796F7265742E7172%2Fd2s%2FFakult%25C3%25A4ten%2FFakult%25C3%25A4t_Information_Medien_Design%2FHeiler%2F01%2520SAP%2520HANA%25202018%2FLecture%2520Material%2FHomework%2520%2FCurriculum_1_pdf_student.zip?browser=safari) and [curriculum\_2\_pdf\_students.zip](https://vpn1.fh-heidelberg.de/+CSCOE+/files/files_retr/init/html/file/cifs%3A%2F%2F666975712D3031392E7170662E73752D7572767172796F7265742E7172%2Fd2s%2FFakult%25C3%25A4ten%2FFakult%25C3%25A4t_Information_Medien_Design%2FHeiler%2F01%2520SAP%2520HANA%25202018%2FLecture%2520Material%2FHomework%2520%2Fcurriculum_2_pdf_students.zip?browser=safari) and answer the questions that are raised in the files.

A list of what answers to be given see below (as of page 2)

1. As you do the hands-on part you will create some artefacts in the HANA database provided by the UCC Magdeburg.

Please take care that you create the artefacts according the naming conventions mentioned in the exercises and case studies.

**So please create the artefacts with you GBI\_xxx User!!**

According to the artefacts you have created you will be graded along with the answers given as described in part 1 of this document.

In total you can achieve **40 points** for the hands-on part.

***Answer the following questions***

***From: Curriculum #1 - Introduction to SAP HANA (total 20 Points)***

*01\_Introduction\_to\_ SAP HANA\_Chapter\_2\_Reporting\_Exercise* ***(5 Points)***

* What are the „Top 5 US Customers in 2011“?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Attach the pdf document “Compare U.S. customer annual revenues over time”

*From “03\_Introduction\_to\_SAP\_HANA\_Chapter\_3\_Data\_Modeling\_Exercise”****(4 Points)***

* What is the data type and length of field *COUNTRY*?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Is the table of type *Column Store* or *Row Store*?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* To which sales organization does the customer Motown Bikes from Denver belongs to?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* What is the name of the database tables used in this view?
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*From “06\_Introduction\_to\_SAP\_HANA\_Chapter\_5\_Case\_Study”* ***(7 Points)***

You create all database tables in the database schema GBI\_###, whereas ### stand for your individual ID. Please take care you use your own ID!

*The following HANA artefacts are required in the HANA catalog*

* *CUSTOMER\_ATTR\_###.hdbtable*
* *PRODUCT\_ATTR\_###.hdbtable*
* *SALES\_###.hdbtable*

Fill in the provided data in the 3 HANA DB-tables.

*In your package* *gbi-student-###, create the flowgraph model*

* *CustomerFlow*.

*In your package* *gbi-student-###,* *create a calculation view for the customer data*

* *CUSTOMER\_DIM\_CV\_###*
* **Run** the calculation view to check the contents.

Create a calculation view for product data

* *PRODUCT\_DIM\_CV\_###*
* **Run** the calculation view to check the contents

Create a calculation view for your sales data

* *SALES\_CUBE\_CV\_###*
* **Run** the calculation view to check the contents

Analyze the sales data ***(4 Points)***

* What is the total revenue in Germany in May 2011?

What are the top 3 products by revenue sold in Germany in May 2011?

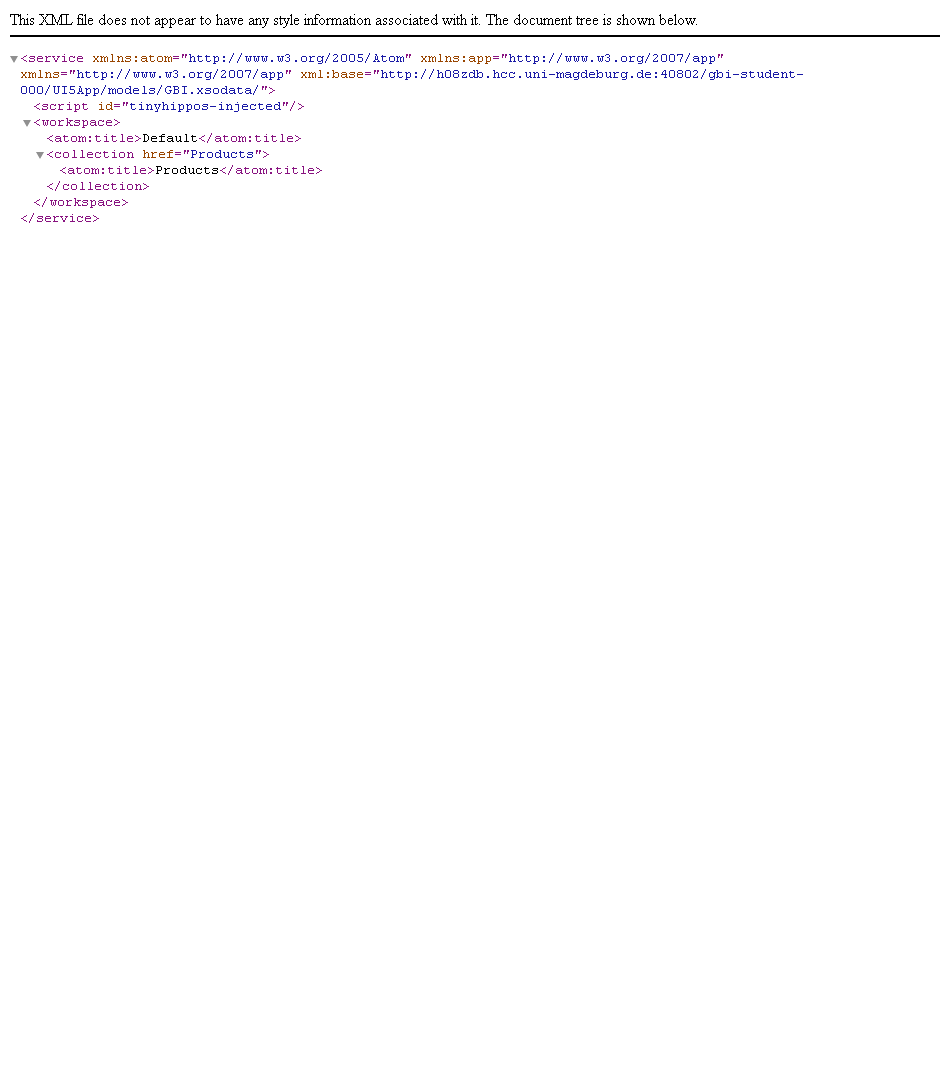
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**From Curriculum #2 - Native Development (total 20 Points)**

*From “06\_Native\_Development\_Chapter\_02\_OData\_in\_SAP\_HANA\_Case\_Study\_en”****(3 Points)***

* In your package *gbi-student-###* create a new package under it with the name *UI5App*.
* Create a new package *models* under the package *UI5App*.
* build our OData service *GBI.xsodata* and enter the required coding which generates an OData Service
* As you can see an OData “service” uses the “Atom” format and is build out of a “workspace” with a “title” and one or many “collections” also with a “title”
* The <service> tag defines particular OData Services. It defines starting point for service consumption
* <workspace> tag contains a list of all server-side resources that are available for manipulation
* <collection> tag identifies an individual server-side resource
* 

With which URL can you read all products in the (list) collection?

Your answer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*From 08\_Native\_Development\_Chapter\_01\_SAPUI5\_Exercise\_#1\_en* ***(4 Points)***

Create a new package with the name *HelloWorld* under the package *gbi-student-###*

And create the three files:

* *index.html*

*what two types of code does it contain?*

*a)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*From 10\_Native\_Development\_Chapter\_03\_SAPUI5\_Exercise\_#2\_en* ***(5 Points)***

create a new package with the name *MVCHelloWorld* under the package *gbi-student-###*

in the package *MVCHelloWorld* that will hold all of the controllers and views create **New ► Package**and

* create a new package *content* and here create a new file *Main.view.xml*
* create the file *Main.controller.js* in the package *content*
* *if implemented properly you should now* see the label “Hello World” on a webpage, and if clicked the text should change to “Clicked!”.

*From 11\_Native\_Development\_Chapter\_03\_SAPUI5\_Case\_Study\_en* ***(8 Points)***

In the package **UI5App**,

* create a new package with the name “*content”* and
* in here create a new file *Main.view.xml*
* create the file *Main.controller.js* in the package *content*.
* As in the next step the existing *index.html* file is overwritten, you can rename the old index file in e.g. *index\_1.html* file and create a new *index.html* file.
* After implementation a “hello MVC!” text should appear in the browser.
* You can now also rename the existing Main.view.xml file and create a new one.

Create the files in the package *content*

* *Overview.view.xml* and
* *Overview.controller.js*.

When you open your application you should see the new navigation items “Overview” and “Sales Orders” plus the labels of the pages (see page 18/19). At the end the user of your application should see data coming from our OData Services.

Get the coding ready to display in the “Sales Order” View the GBI data plus the Contact Data.