ESPRESSO TUTORIALS

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Practical Guide to SAP® Core Data Services (CDS)

- Get an introduction to CDS and SAP HANA Studio
- Create CDS views and code new structures in ABAP
- Use templates, associations, and annotations
- Explore select clauses and aggregate functions

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2 SAP HANA studio's development perspective

SAP HANA studio has several perspectives that can be utilized to create different objects within the SAP HANA database. One such perspective is the SAP HANA development perspective. This perspective includes a selection of tools that enables developers to create SAP HANA applications. This perspective helps developers to use the XS language to create native SAP HANA objects. This should not be confused with the SAP modeler tool that is used to create models using calculation views.

Figure 2.1 shows the default view of SAP HANA studio upon first installation.

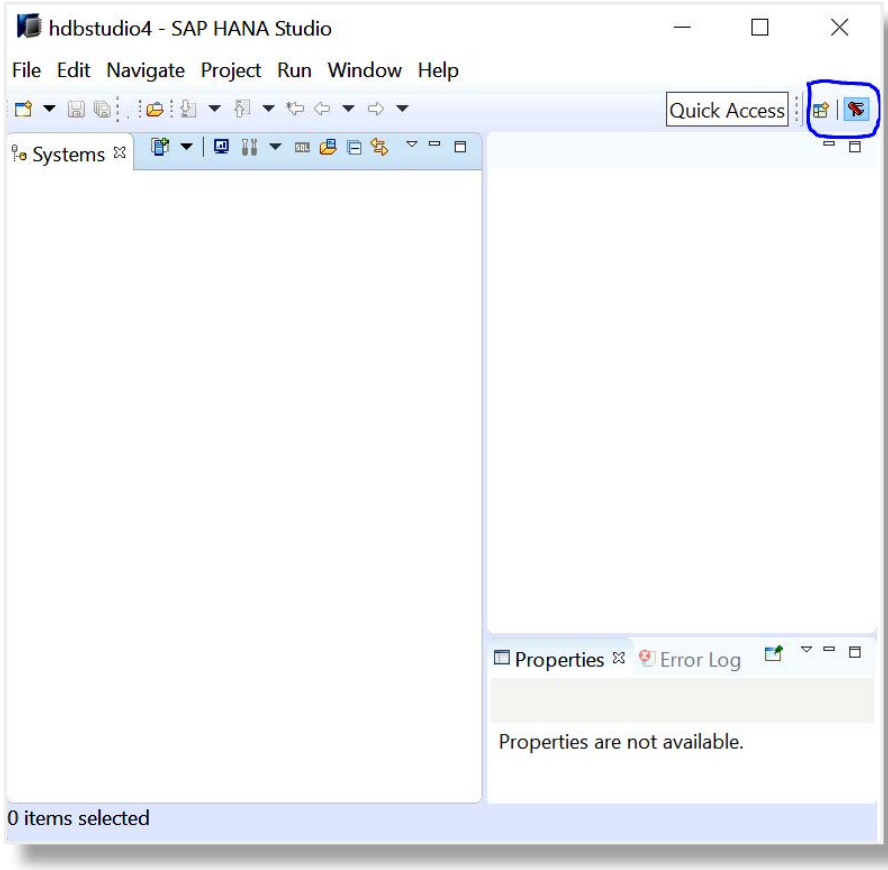

Figure 2.1: SAP HANA studio initial screen with default perspectives

The default perspectives are shown by the buttons on the top right corner in Figure 2.1 (circled). The two buttons that come as defaults are Open Perspective and SAP HANA Administration Console.

- Open perspective: When you click Window • Open Perspective, or the first button on the top-right corner (circled), it opens a screen that prompts the user to open any perspective that comes as default with SAP HANA studio or has been installed by the user. An open perspective screen is shown in Figure 2.2. The user can choose from any of the perspectives listed in the pop-up screen.

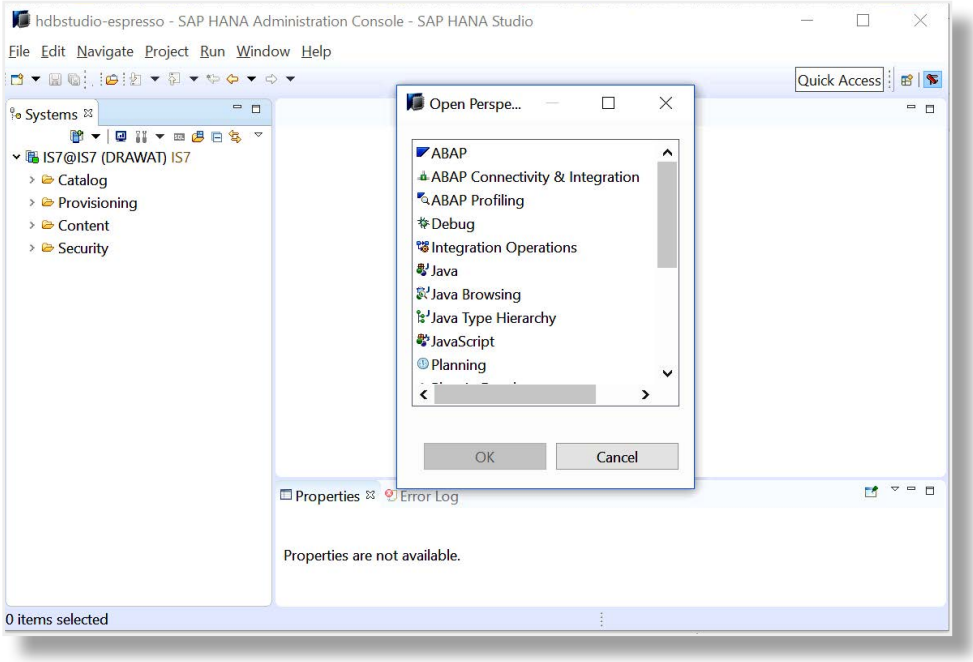

Figure 2.2: Open perspective screen

- SAP HANA Administration Console: The 2nd button at the top right corner is that of the SAP HANA Administration Console. This perspective is used for SAP HANA administration purposes. We will not cover this perspective in this chapter.

Once you click Open Perspective, you can scroll down the pop-up window and highlight the SAP HANA Development perspective, as shown in Figure 2.3. Click OK.

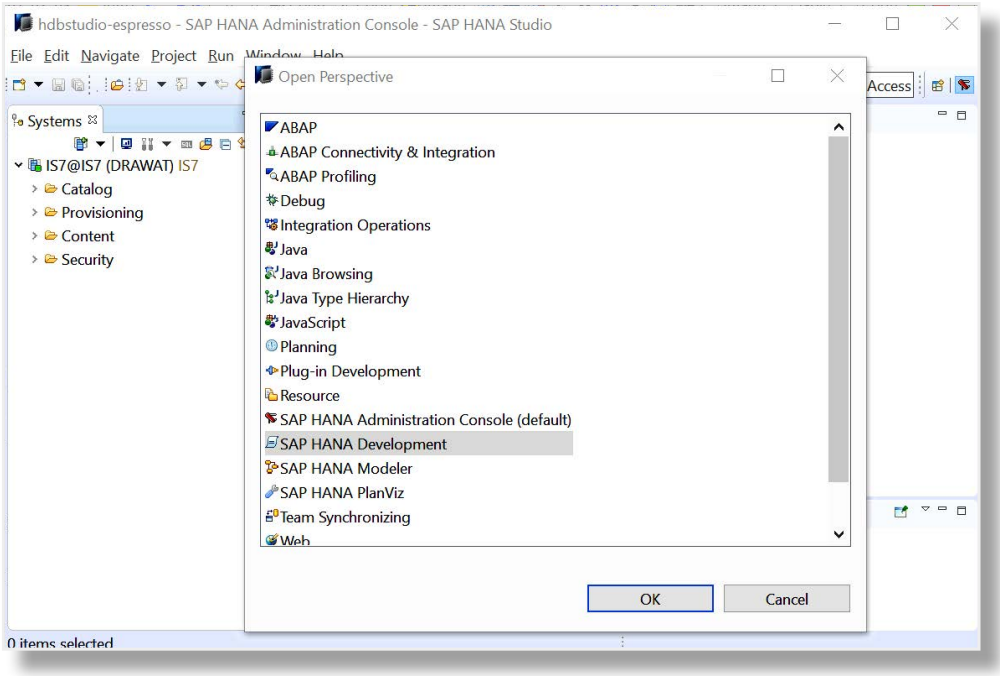

Figure 2.3: SAP HANA Development perspective

This is the perspective used in the next few chapters. Once the user chooses that perspective, the perspective's development screen opens. The initial SAP HANA Development screen is shown in Figure 2.4. The third button at the top right (circled), is the button for the development perspective. When a perspective is open, it has a different gray shade (when compared to the other perspective buttons), which means that perspective is active.

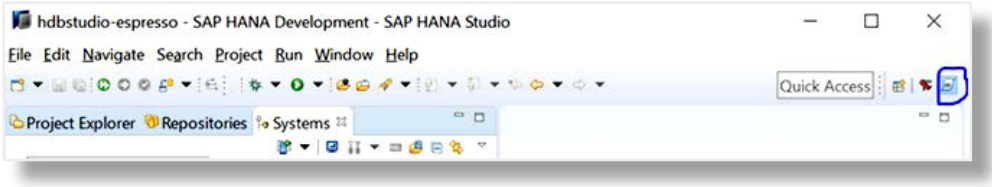

Figure 2.4: SAP HANA Development perspective button

Within this perspective, SAP has provided two main work areas (as shown in Figure 2.5).

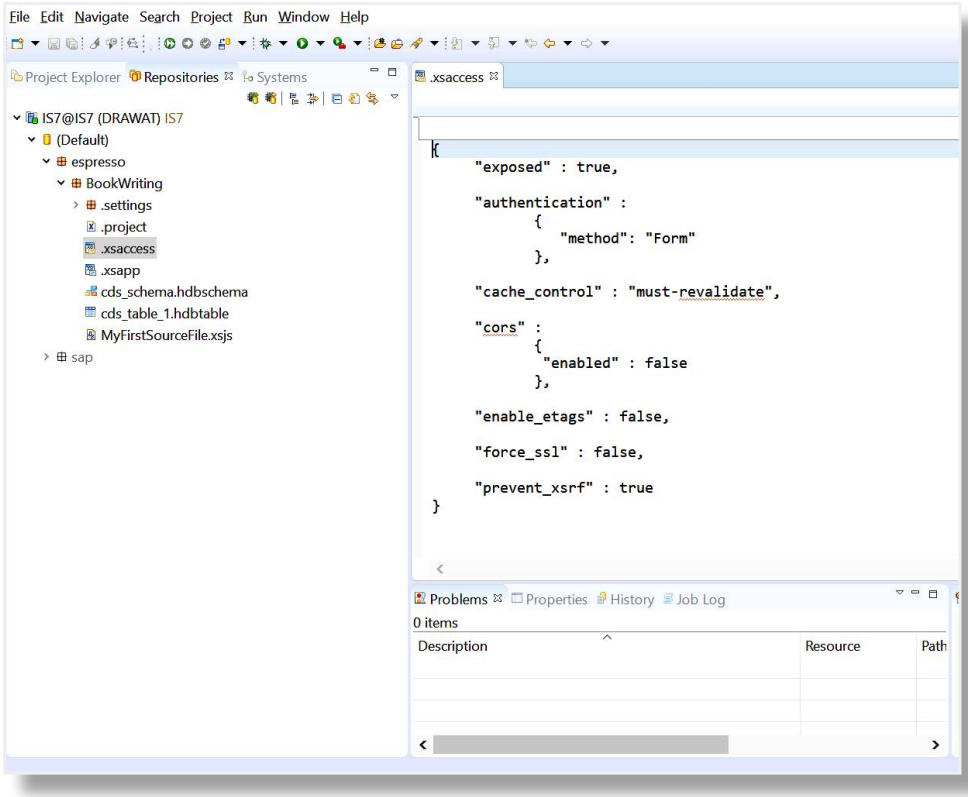

Figure 2.5: A snapshot of the SAP HANA Development perspective

Editors:

The right-hand side (see Figure 2.5) is where the editor opens for the developer to write scripts to create different types of objects. The type of editor that opens is dependent on the type of artifact. For a regular file type object, a file editor opens up. For a CDS object, a CDS editor opens up.

Explorer/Browser:

The left-hand side of the screen (see Figure 2.5) is where you can browse your artifacts, some that are stored in the SAP HANA database and some that are stored on the hard drive of the workstation the user is working on.

In the latest versions of SAP HANA, the workspace and the database are usually synced, so that there are no discrepancies between the versions of objects saved in the workspace and those stored in the database.

The explorer/browser section is further made up of three sub-work areas.

- **Systems tab** – This tab is where you will connect to the SAP HANA database. Right-click this tab and then choose • ADD SYSTEM. See Figure 2.6.

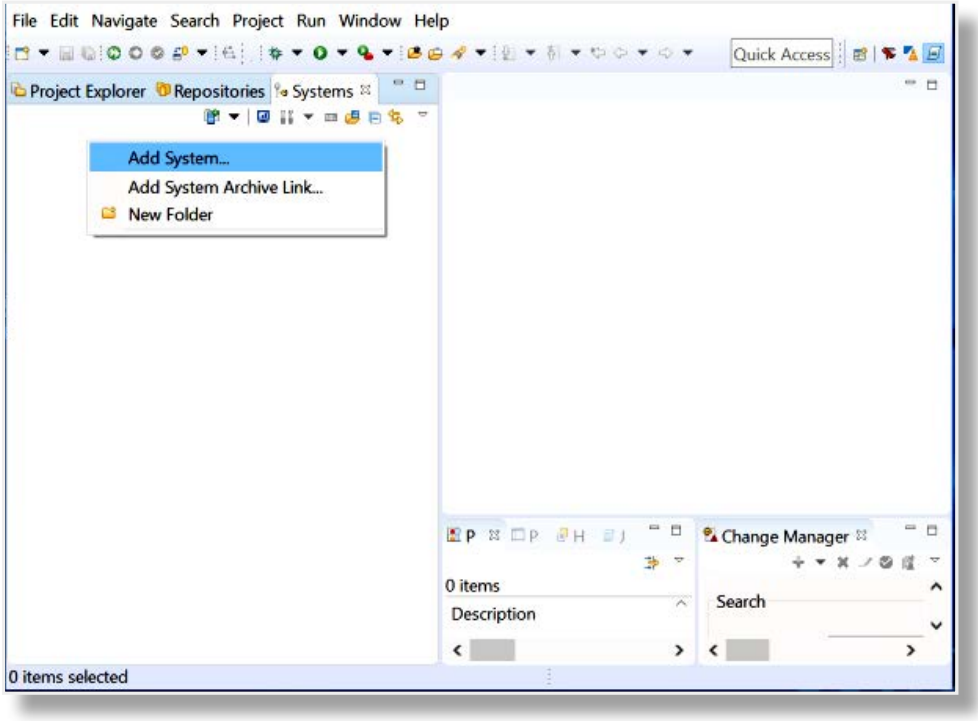

Figure 2.6: Selecting Add System via the Systems tab

A window pops up to ask for more details on the location of the SAP HANA database. This window is shown in Figure 2.7. You must fill in the HOST NAME and the INSTANCE NUMBER and also give this system a name in the DESCRIPTION box. The description is what is visible in the SYSTEMS tab, so describe it in a manner that you can later figure out which SAP HANA database the identifier is meant for.

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