

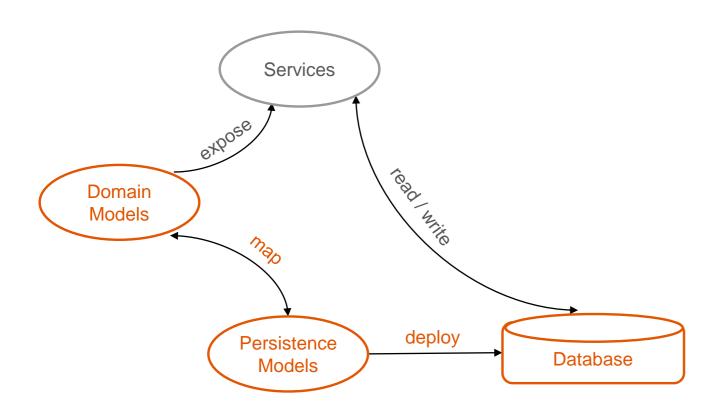
Week 2: Development Tasks

Unit 4: Using Databases





Introduction





Domain Models

Static and data-related aspects of a problem domain in terms of entity-relationship models.



Persistence Models

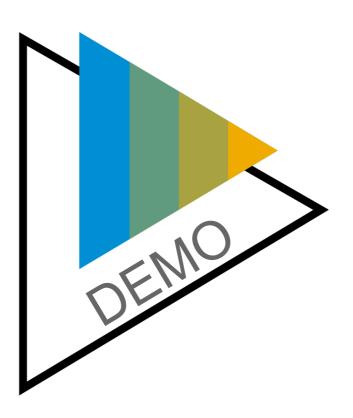
A set of entities mapped from a domain model and deployed to the database



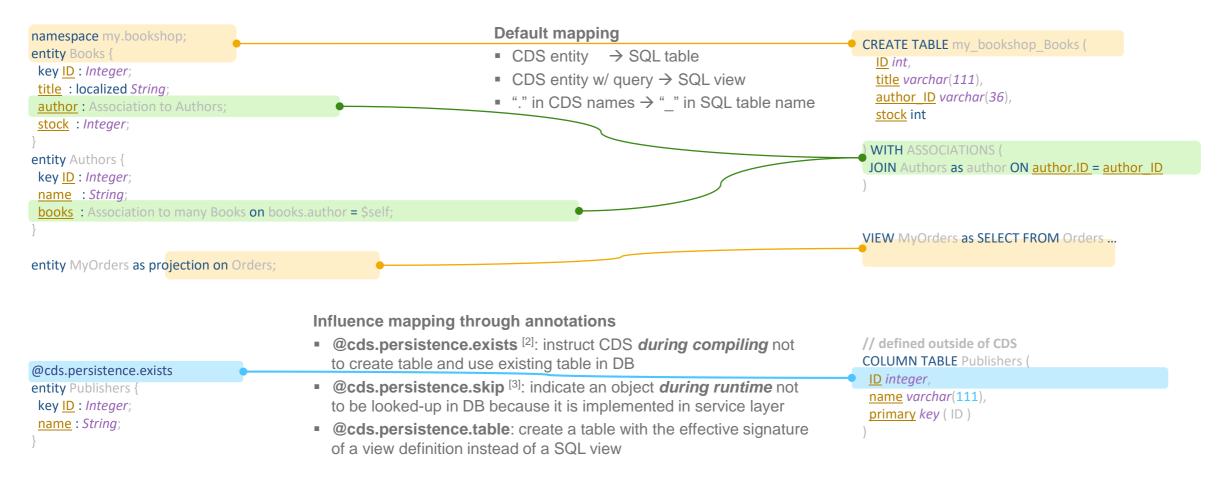
Services

Exposed interfaces based on the domain model

Demo



CDS model mapping to SQL^[1]



using API_BUSINESS_PARTNER as bp from '../srv/external...';

@cds.persistence.skip

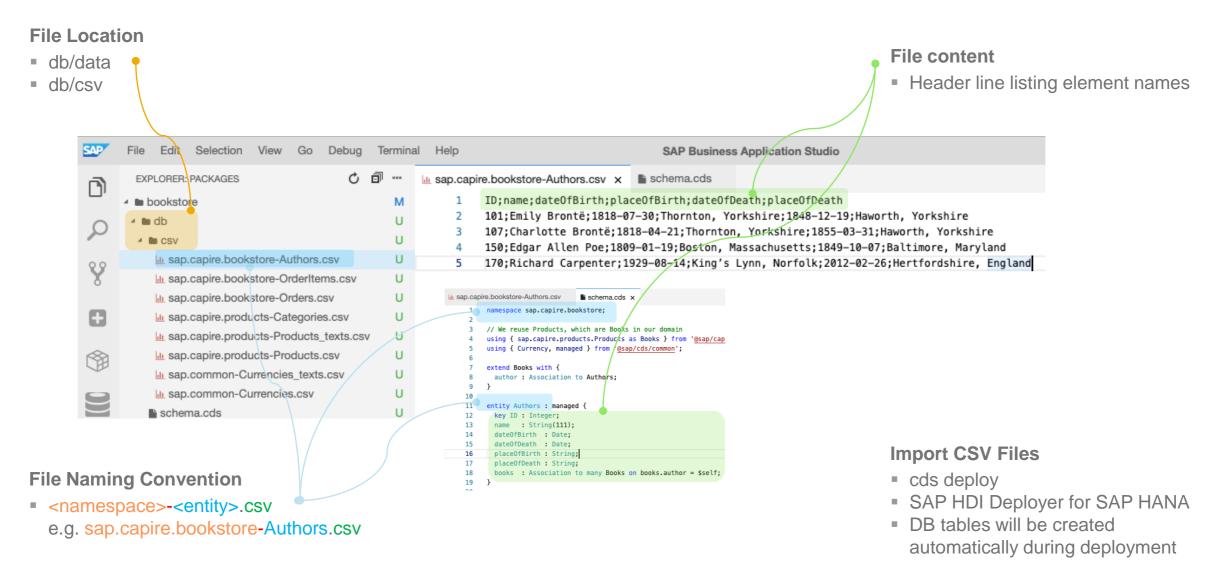
entity A_Customer as projection on bp.A_CustomerType;

[3] Unit 4.2 "Connecting to Remote Services" offers further details.

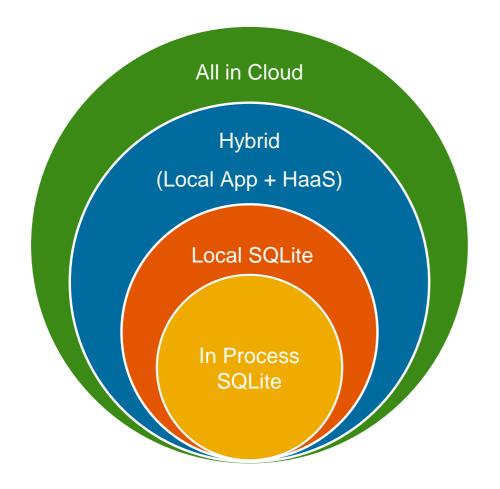
[1] Demonstrated here with SAP HANA SQL statement. SQLite differs slightly.

[2] Unit 3.5 "Accessing Native SAP HANA Tables and Views" offers further details.

Provide initial data

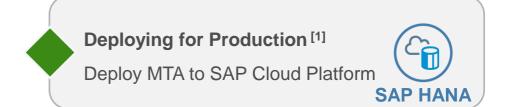


Deploy to database – Grow as you go



[1] Unit 3.4 "Deploying for Production" discusses how to deploy complete project as MTA to SAP CP.

[2] It only deploys database parts to SAP HANA DB on SAP Cloud Platform while the app still runs locally. To understand what happens behind the scenes, please refer to deploy --to hana.





Deploy data to SAP HANA

App stays local



cds deploy --to sqlite

Deploy to local SQLite database



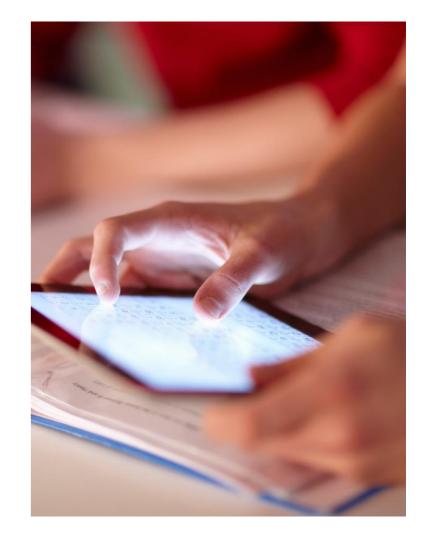
cds run [app] --in-memory

Run app with in-memory SQLite



What you've learned in this unit

- How to grow your database deployment along with your development
- How to deploy only data of your project to SAP HANA service on SAP Cloud Platform
- How to provide initial data for CDS model
- How CDS models get mapped to persistence model



Thank you.

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