



# CNA262 – Developing SAP HANA Database Modules with an Application Programming Model

PUBLIC

# Speakers 2018



## SAP TechEd Las Vegas

October 2–5, 2018

Chris Whealy

Vasu Kesiraju

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## SAP TechEd Barcelona

October 23–25, 2018

Chris Whealy

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## SAP TechEd Bangalore

November 28–30, 2018

Gaurav Dey

Vasu Kesiraju

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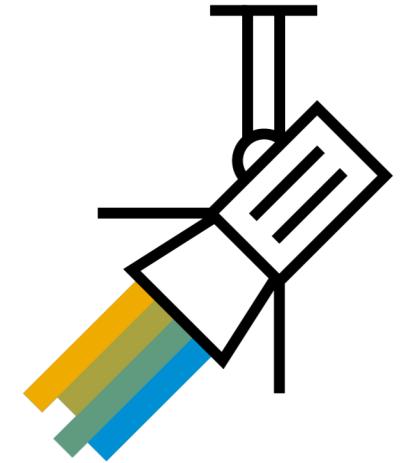
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# Agenda

## Overview Presentation (20 mins) - Speaker

- SAP Cloud Platform
- The Application Programming Model
- Learning Journey
- The Scenario
- Data Model
- Session Exercises



## Hands-on Exercises (100 mins) – Participants

- Pre-Requisites and Preparation
- Exercise A: Create HANA Graph Workspace
- Exercise B: Create HANA Graph To Calculate the Shortest Path
- Exercise C: Create Calculation View To List Direct Flights
- Exercise D: Create Calculation View To List All Possible Flights
- Exercise E: [Bonus] Consume Calculation View in SAPUI5 Application

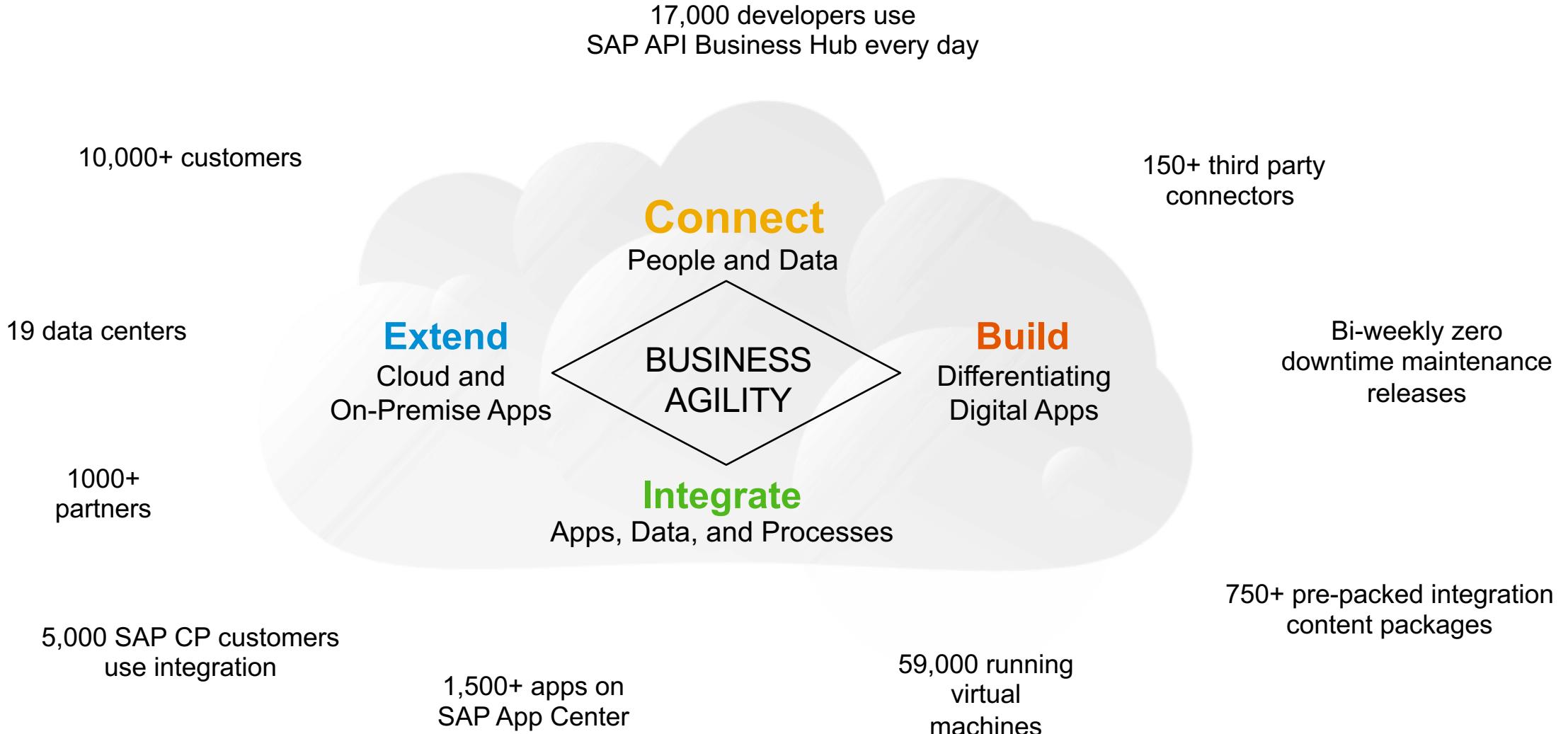
# Overview | SAP Cloud Platform

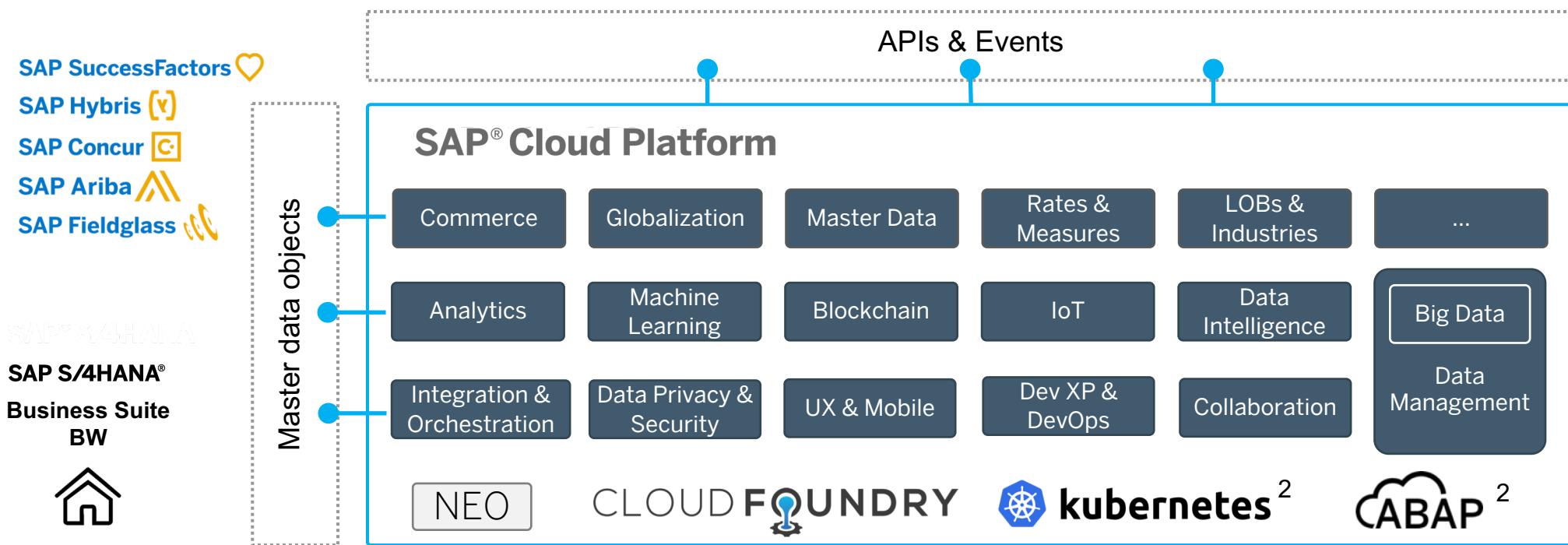
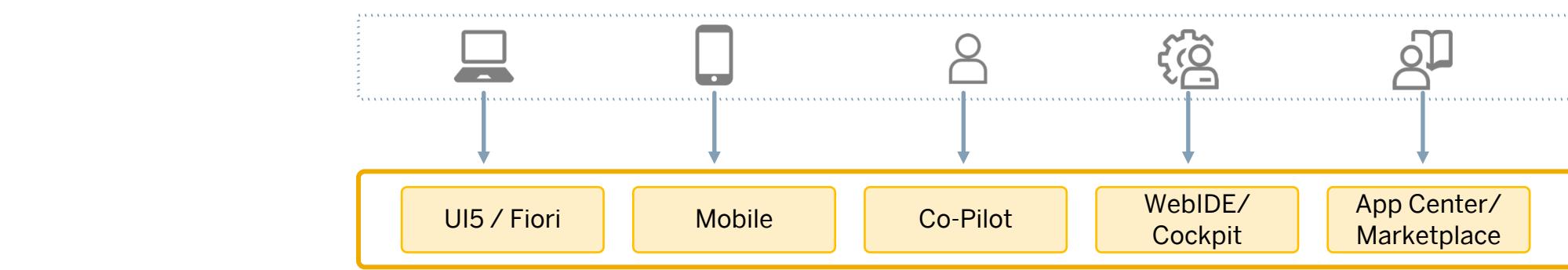


**“... SAP Cloud Platform is in the center.  
Everything what we do now;  
how we connect applications,  
how we connect other applications,  
how we present services we have in the system  
for the use in applications or  
in Leonardo or outside SAP  
will go through the SAP Cloud Platform.”**

Prof. Dr. h.c. mult. Hasso Plattner  
Chairman of the Supervisory Board, SAP

# Power the Intelligent Enterprise





1) BETA , 2) planned innovations / future direction

# Overview | Application Programming Model



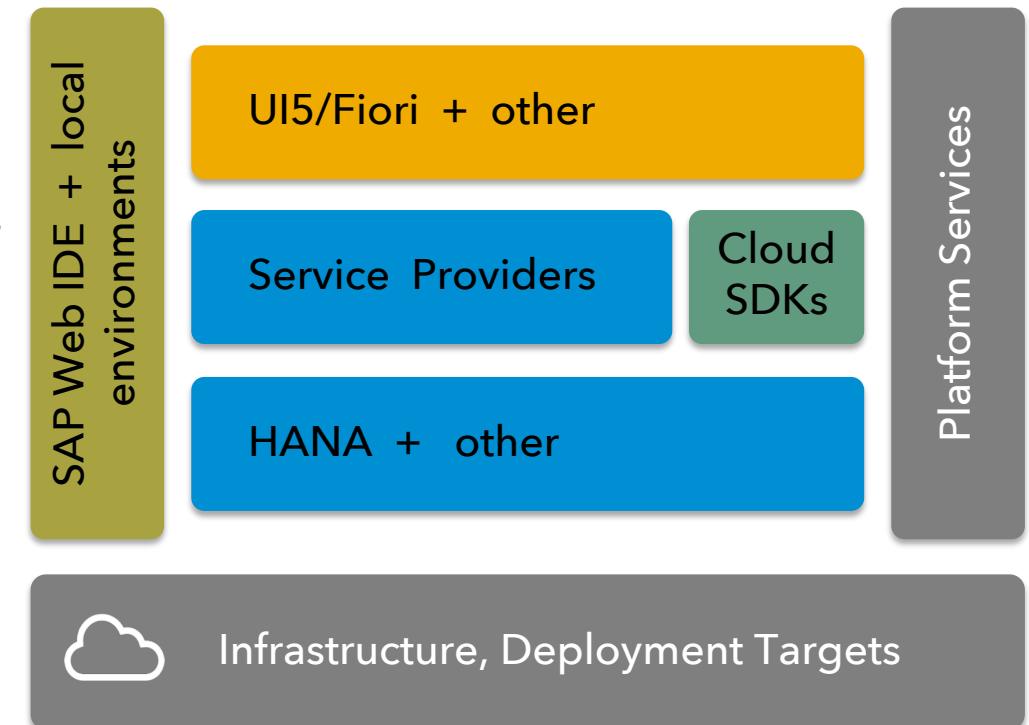
# SAP Cloud Platform Application Programming Model \*

## New Development Paradigm

The SAP Cloud Platform application programming model provides developers with a quick and easy means to create enterprise applications by allowing them to focus on their domain logic. It offers a consistent, end-to-end programming model and development experience tailored for the SAP Cloud Platform.

### Key Capabilities

- Define full-stack applications using Core Data Services (CDS) for data and service modeling
- Automatic service provisioning with out-of-the-box support for HANA and Fiori
- Open architecture that easily combines with other databases and technologies
- Easily consume and extend services from S/4 systems
- Built-in implementation for product standards such as security
- Tooling: SAP Web IDE and basic support for local development environments



### Key Benefits

- Accelerates the development of business services and applications
- Guides application developers with SAP best practices
- Focus on domain logic – no need to write any boilerplate code
- Developers can choose their preferred programming language, DB and tools

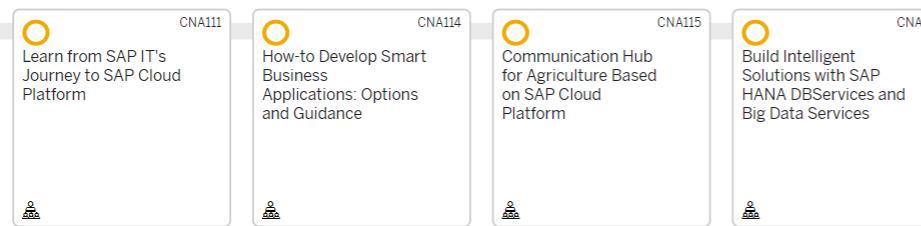
\* The name is subject to change

# Overview | Learning Journey



## Explore – Start with an overview

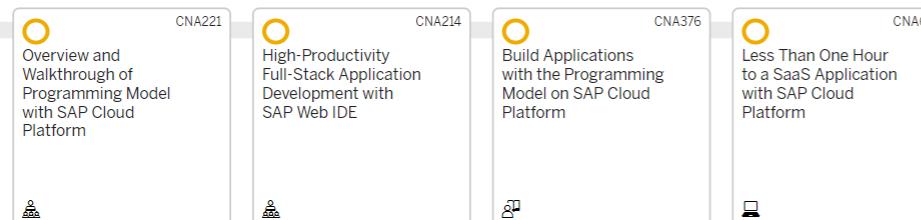
Get the 30,000ft view on the topic



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## Discover – Get the details around a topic

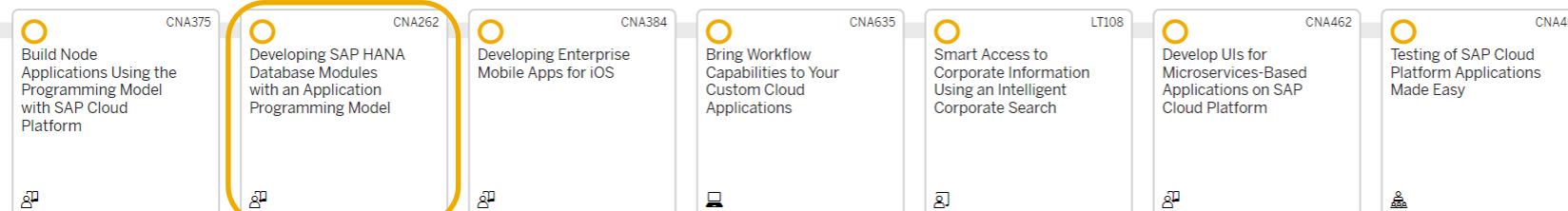
Learn what it takes and how it fits your company's customers' needs



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## Learn - Become competent

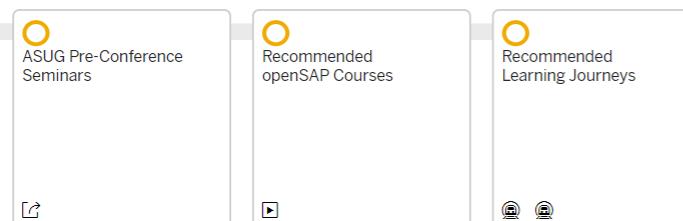
Dive deeply into the very heart of the topic and get your hands dirty



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## Expand your skills – Go beyond

Find out where and how to learn even more about the topic outside the limits of the TechEd event



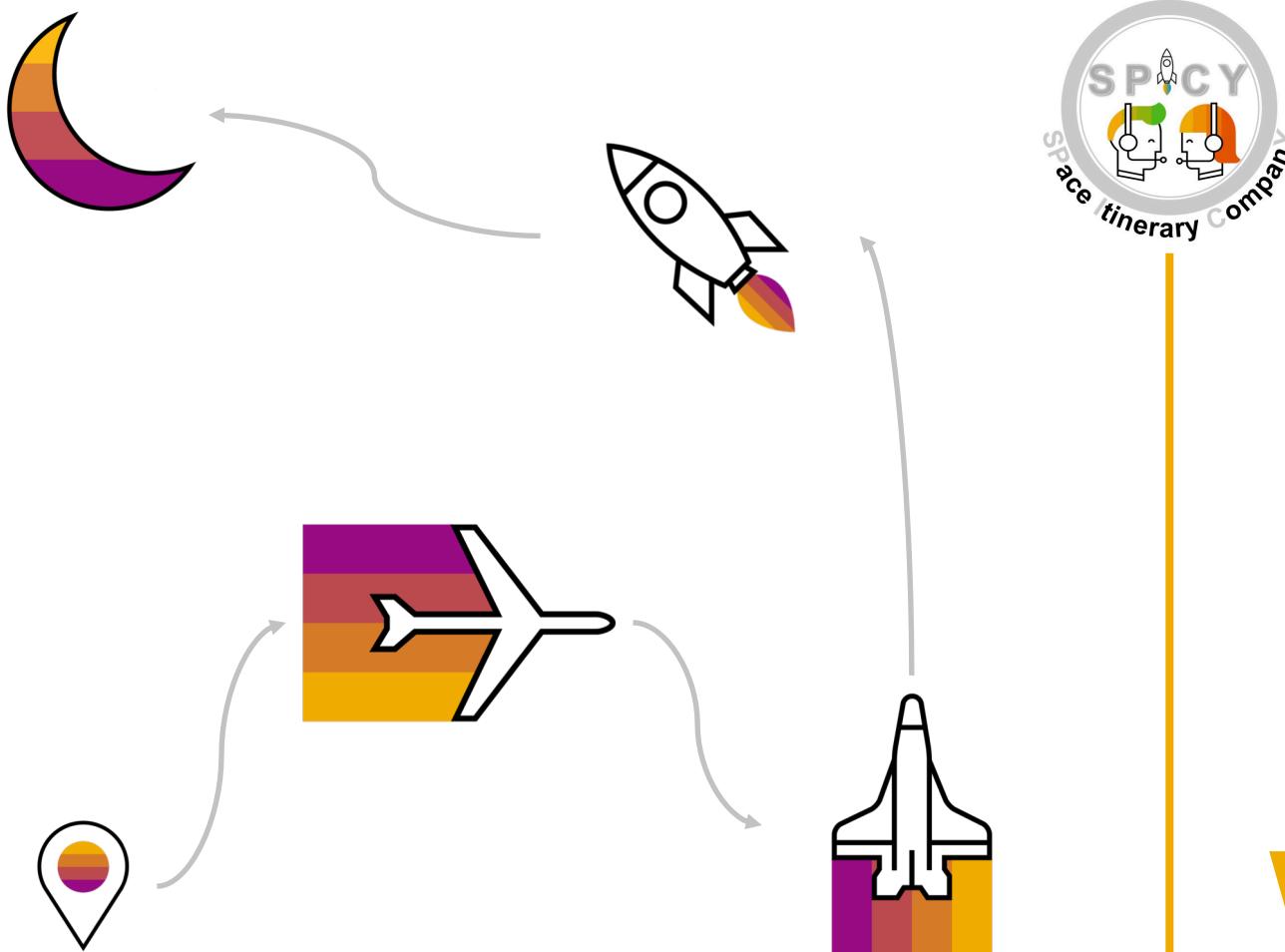
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# CNA8 - Build Intelligent Business Applications

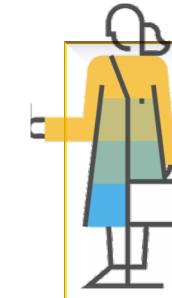
# Overview | The Scenario



# The Scenario | SPace Itinerary CompanY - Book Your Space travel !



**Travel Agent,**  
view various space travel  
bookings and itineraries



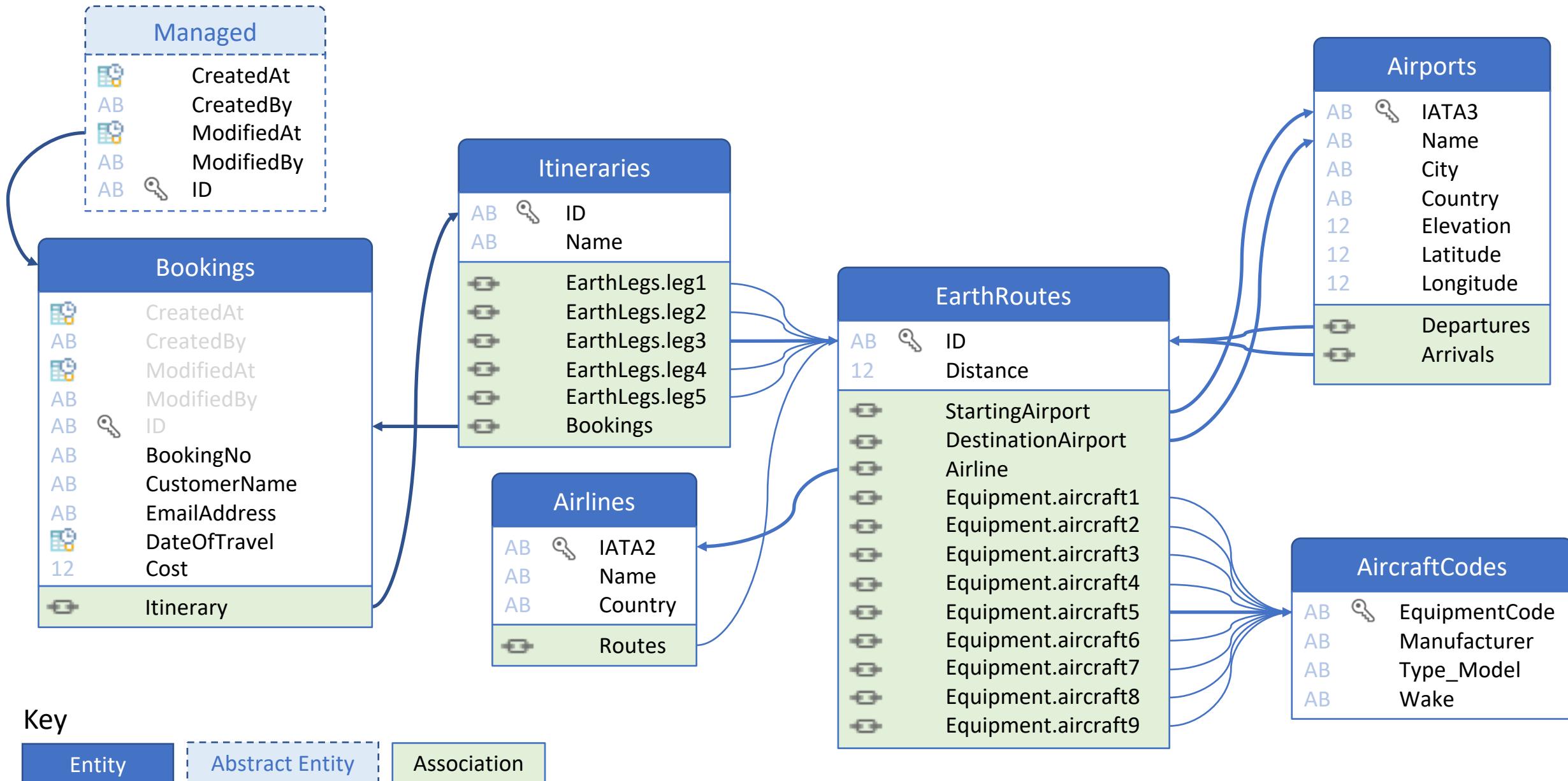
**Space Traveller,**  
select space destination and  
create booking

We help the agency **find best routes** using  
**HANA Database** algorithms between two  
Airports.

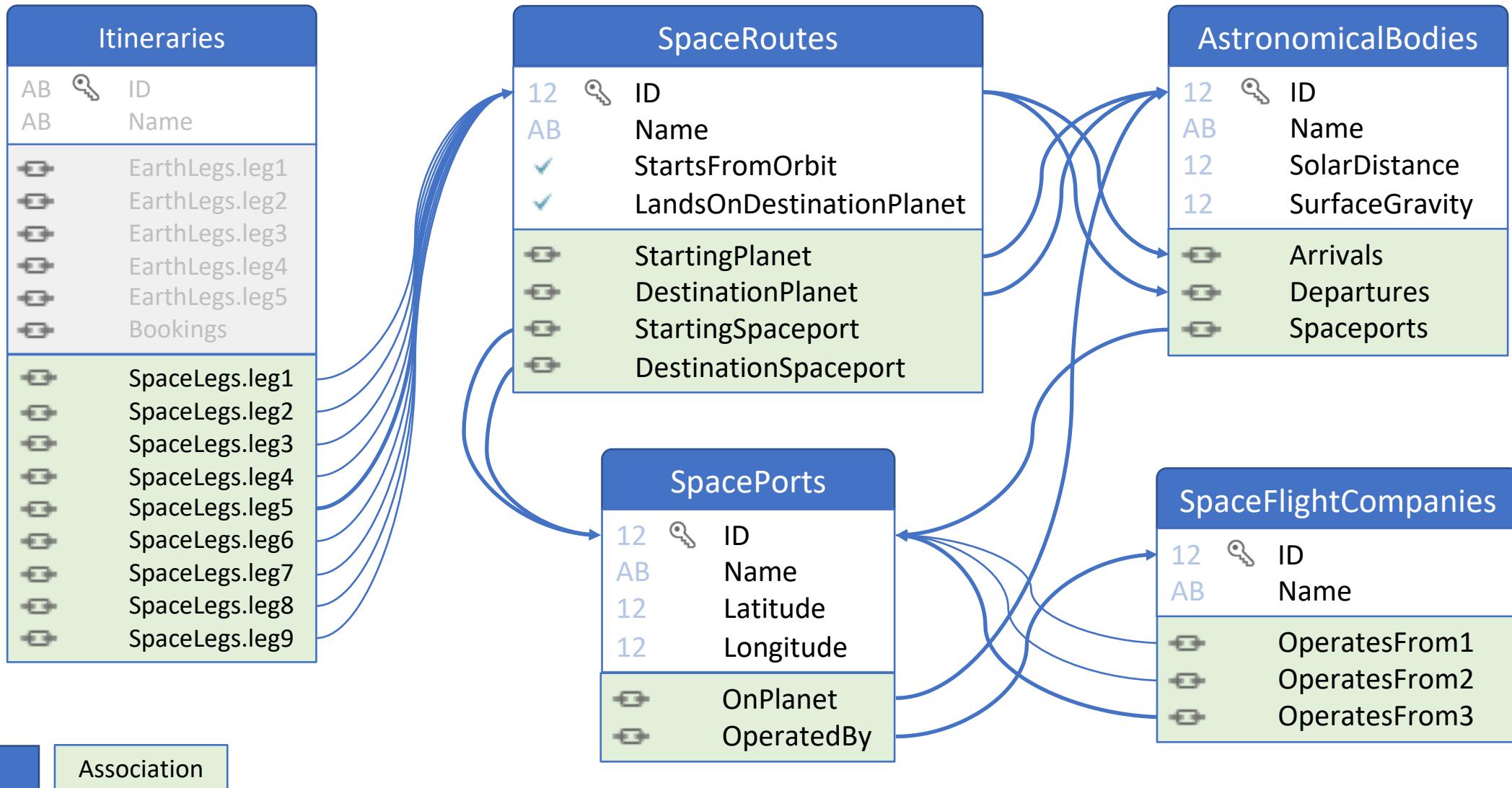
# Overview | Data Model



# Data Model : Flight Data Model



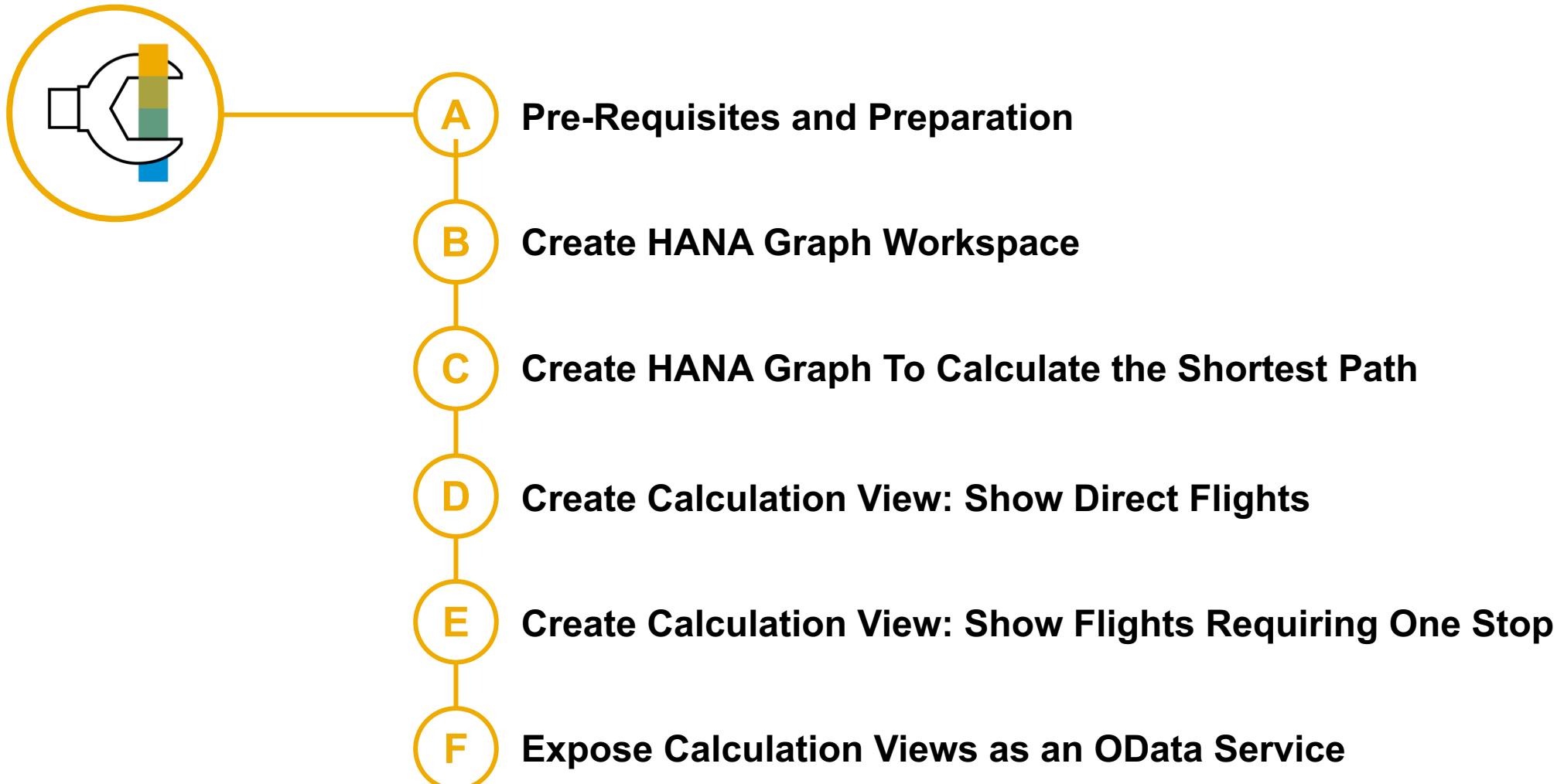
# Data Model : Space Data Model



# Overview | Exercises



# What You Have To Do



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**Featured Blog**

 SAP TechEd in 2018:  
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SAP TechEd in 2018 will give attendees the personalized, inspirational learning journey of their careers. I'll be video reporting from the show floor, and hope to see you there. Read more on [my blog](#).

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# Further information



## Related SAP TechEd content journeys

- CNA7 – Rapidly Build Cloud Applications Using High Productivity Tools
  - DAT3 – Build Applications Using SAP HANA Native Development
  - OPP2 – Build Cloud Native Apps with SAP Cloud Platform
- 

## Related SAP TechEd sessions

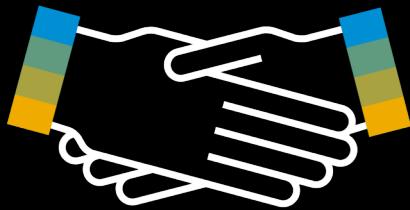
- CNA119 – Build Intelligent Solutions with SAP HANADB Services and Big Data Services
  - CNA221 – Overview and Walkthrough of Programming Model with SAP Cloud Platform
  - CNA214 – High-Productivity Full-Stack Application Development with SAP Web IDE
  - CNA376 – Build Applications with the Programming Model on SAP Cloud Platform
  - CNA375 – Build Node Applications Using the Programming Model with SAP Cloud Platform
  - DAT260 – Developing SAP HANA Native Applications with Node.js
  - DAT601 – Introduction to Native Development on SAP HANA Using SAP WebIDE
  - OPP363 – Build Cloud-Native Applications Using a Cloud Foundry Environment
- 

## Public SAP Web sites

- ABAP Development Community: <https://www.sap.com/community/topic/abap.html>
  - SAP products: [www.sap.com/products](http://www.sap.com/products)
- 

## SAP training and certification opportunities

- [www.sap.com/education](http://www.sap.com/education)



# Thanks for attending this session.

THE BEST RUN 



## Feedback

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## Contact for further topic inquiries

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