End to End S/4 HANA Hierarchy Scenario: Employee-Manager Hierarchy Fiori App

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Functional Information (prepared by Functional Consultant and UX Designer)

We have implemented S/4HANA OP last year in our company "anubhavtrainings.com", We have custom HR tables containing the details of employee, manager and cost center information, along with tables including the effort estimation for employees. The business needs a Fiori Application to display Utilization effort of employee and reporting manager in a Fiori Application. Below document describes the design and detailed requirement for the same.

Tables used:

Following database tables are storing Master and Transaction data for Employee-Manager Record for reporting requirements

Table Name	Purpose	Key
ZATS_EMP_MGR	Employee Manager Master Record	EMPID
ZATS_EMP_HRS	Employee Effort Recording (In Hours)	EMPID

a. A BW Report displaying Cost Center, Manager and Employee Hierarchy

2. A Smart Tree Table report showcasing the hierarchy and filter based on the Cost Center
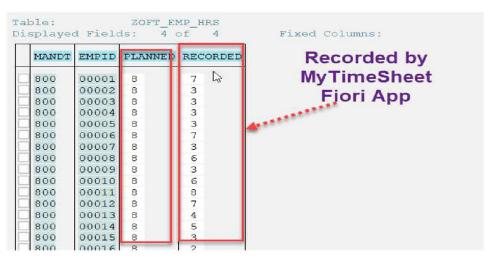
Implementation Information (prepared by Architect)

How to read data?

Read for Analytical App

Master Data for employee and its reporting manager stored in table ZATS_EMP_MGR

	MANDT	EMPID	EMPNAME	MANAGERID	COSTCENTER
	800	00001	Sonia Nehra	00000	0000001000
	800	00002	Mahima Sharma	00000	SAP-DUMMY
	800	00003	Sonakshi Sethia	00002	SAP-DUMMY
	800	00004	Vinay Bhaskar	00001	SAP-DUMMY
	800	00005	Jane Schott	00002	SAP-DUMMY
	800	00006	Peter Matt	00001	0000001000
	800	00007	Vaishali Banua	00002	SAP-DUMMY
	800	00008	Roger Ross	00000	0000001000
	800	00009	Denis Dell	00005	SAP-DUMMY
	800	00010	Syed Ahmed	00000	SAP-DUMMY
	800	00011	Shikha Sen	00005	SAP-DUMMY
	800	00012	Rohit Mishra	00002	SAP-DUMMY
	800	00013	Prakash Kumar	00005	SAP-DUMMY

Table: ZOFT_EMP_MGR
Displayed Fields: 5 of 5   Fixed Columns:

For each employee the is a reporting manager and corresponding Cost Center associated to manager, Every Manager him/her self-part of employee table and belongs to cost center, also there are multi levels on page. For each employee the planned and actual effort is maintained in table ZATS_EMP_HRS (Time Recording), The actual effort spend by employee is recorded by timesheet app already.

Table: ZOFT_EMP_HRS
Displayed Fields: 4 of 4   Fixed Columns:

	MANDT	EMPID	PLANNED	RECORDED
	800	00001	8	7
	800	00002	8	3
	800	00003	8	3
	800	00004	8	3
	800	00005	8	3
	800	00006	8	7
	800	00007	8	3
	800	00008	8	6
	800	00009	8	3
	800	00010	8	6
	800	00011	8	8
	800	00012	8	7
	800	00013	8	4
	800	00014	8	5
	800	00015	8	3
	800	00016	8	2

Recorded by MyTimeSheet Fiori App

A join can be commenced between the master and transaction data using employee id irrespective of employee or manager.

Aggregate (SUM) the planned and recorded efforts and calculate the effort utilization using formula planned / recorded * 100

Implementation Information (prepared by Developer - Anubhav)

1. Create an interface view to represent the Master Data from Employee Manager Record - ZATS_P_EMPLOYEE
2. Create an interface CDS view to define a parent child hierarchy between Employee and Manager with a Self-join as manager is also an employee (Non-cyclic) - ZATS_I_EMPMGR
3. Define a CUBE view by associating the Effort hours (Transactional data table) and cost center master data records - ZATS_CO_EMPHOURS (#CUBE)
4. Test the cube using RSRTS_ODP_DIS tcode to check if hierarchy levels are realized.
5. Finally, Create an Analytic Query using Consumption View which aggregate all the measures and expose expression to produce the Effort Utilization rate.
6. Expose the Calculation view as OData Service with Hierarchy annotations to display a Tree Table. ZATS_C_EMPHOURS
7. Create a Fiori Application including the Annotations file and search field for cost center.
8. Add Smart Filter bar and Table including binding to communicate to the response from OData service.

Contact us on install.abap@gmail.com for latest concepts and learnings on cutting edge technologies.

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