```abap
@ClientHandling.algorithm: #SESSION_VARIABLE
@ObjectModel.representativeKey: 'CalendarDate'
@ObjectModel.usageType.dataClass: #MIXED
@ObjectModel.usageType.serviceQuality: #C
@ObjectModel.usageType.sizeCategory: #XL
@AbapCatalog.sqlViewName: 'ICALENDARDATE'
@EndUserText.label: 'Date'
@Analytics : {dataCategory: #DIMENSION, dataExtraction.enabled : true}
@AccessControl.authorizationCheck: #NOT_REQUIRED
@VDM.viewType: #BASIC

define view I_CalendarDate as select from scal_tt_date
// inner join I_SAPClient as _SAPClient on sapclient is not null
association [1..1] to I_CalendarMonth as _CalendarMonth
  on _CalendarMonth.CalendarMonth = scal_tt_date.calendarmonth
association [1..1] to I_CalendarQuarter as _CalendarQuarter
  on _CalendarQuarter.CalendarQuarter = scal_tt_date.calendarquarter
association [1..1] to I_CalendarYear as _CalendarYear
on _CalendarYear.CalendarYear = scal_tt_date.calendaryear
association [1..1] to I_WeekDay as _WeekDay
  on _WeekDay.WeekDay = scal_tt_date.weekday
association [1..1] to I_YearMonth as _YearMonth
  on _YearMonth.YearMonth = scal_tt_date.yearmonth


{
    key scal_tt_date.calendardate as CalendarDate,
    @ObjectModel.foreignKey.association: '_CalendarYear'
    scal_tt_date.calendaryear as CalendarYear,
    @ObjectModel.foreignKey.association: '_CalendarQuarter'
    scal_tt_date.calendarquarter as CalendarQuarter,
    @ObjectModel.foreignKey.association: '_CalendarMonth'
    scal_tt_date.calendarmonth as CalendarMonth,
    scal_tt_date.calendarweek as CalendarWeek,
    scal_tt_date.calendarday as CalendarDay,
     @ObjectModel.foreignKey.association: '_YearMonth'
    scal_tt_date.yearmonth as YearMonth,
    scal_tt_date.yearquarter as YearQuarter,
    scal_tt_date.yearweek as YearWeek,
    @ObjectModel.foreignKey.association: '_WeekDay'
    scal_tt_date.weekday as WeekDay,

    scal_tt_date.firstdayofweekdate as FirstDayOfWeekDate,
    scal_tt_date.firstdayofmonthdate as FirstDayOfMonthDate,
    scal_tt_date.calendardayofyear as CalendarDayOfYear,
    scal_tt_date.yearday as YearDay,
    _WeekDay,
    _CalendarMonth,
```

```
        _CalendarQuarter,
        _CalendarYear,
        _YearMonth

}
```