Working with the ABAP Editor

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ABAP DEVELOPER

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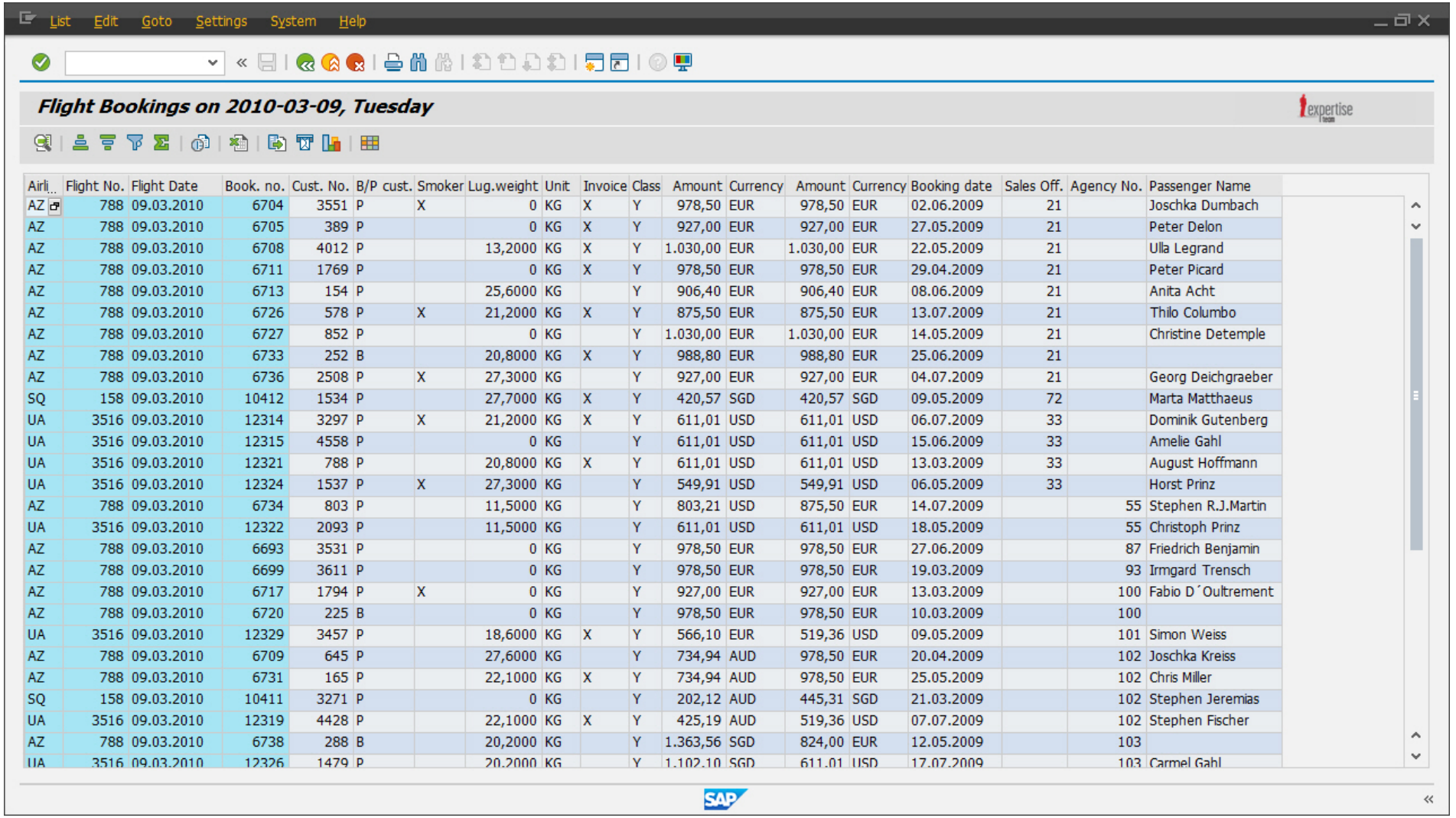
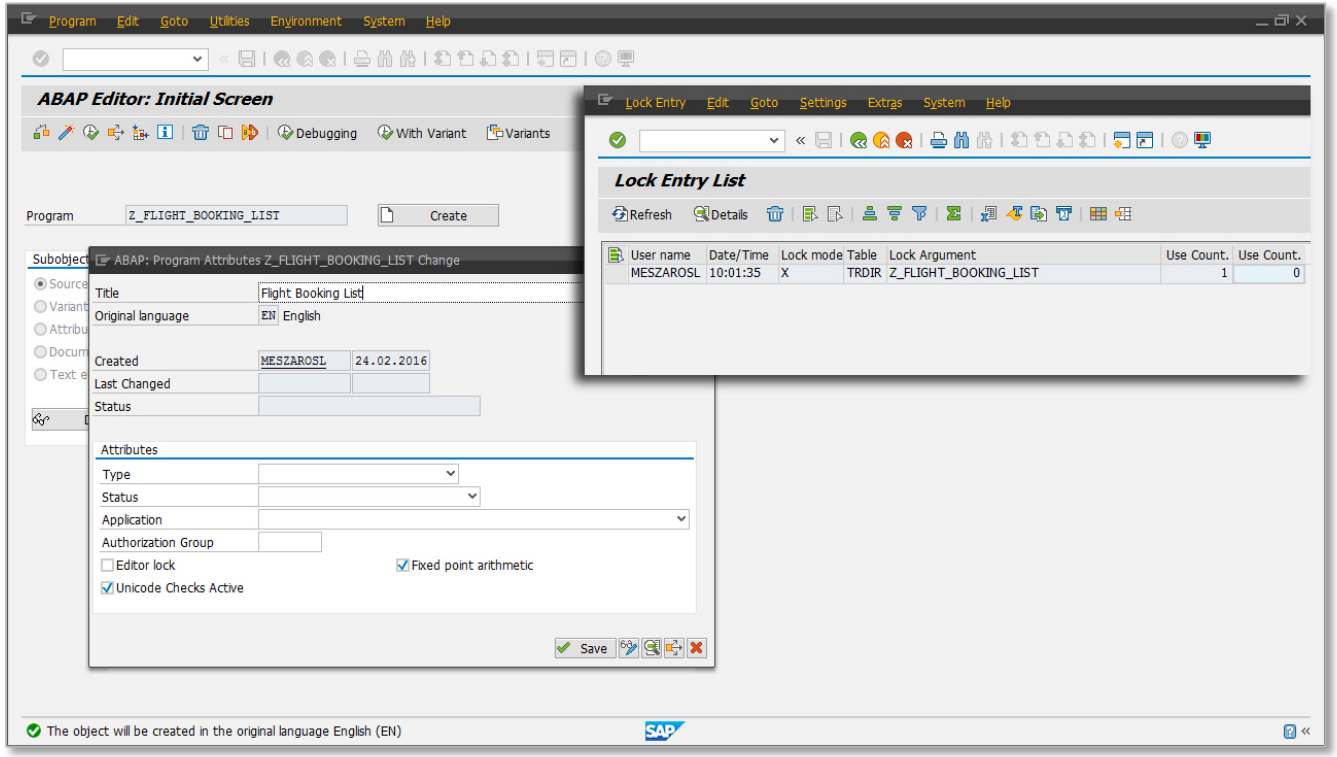
The **Goal** of This Module

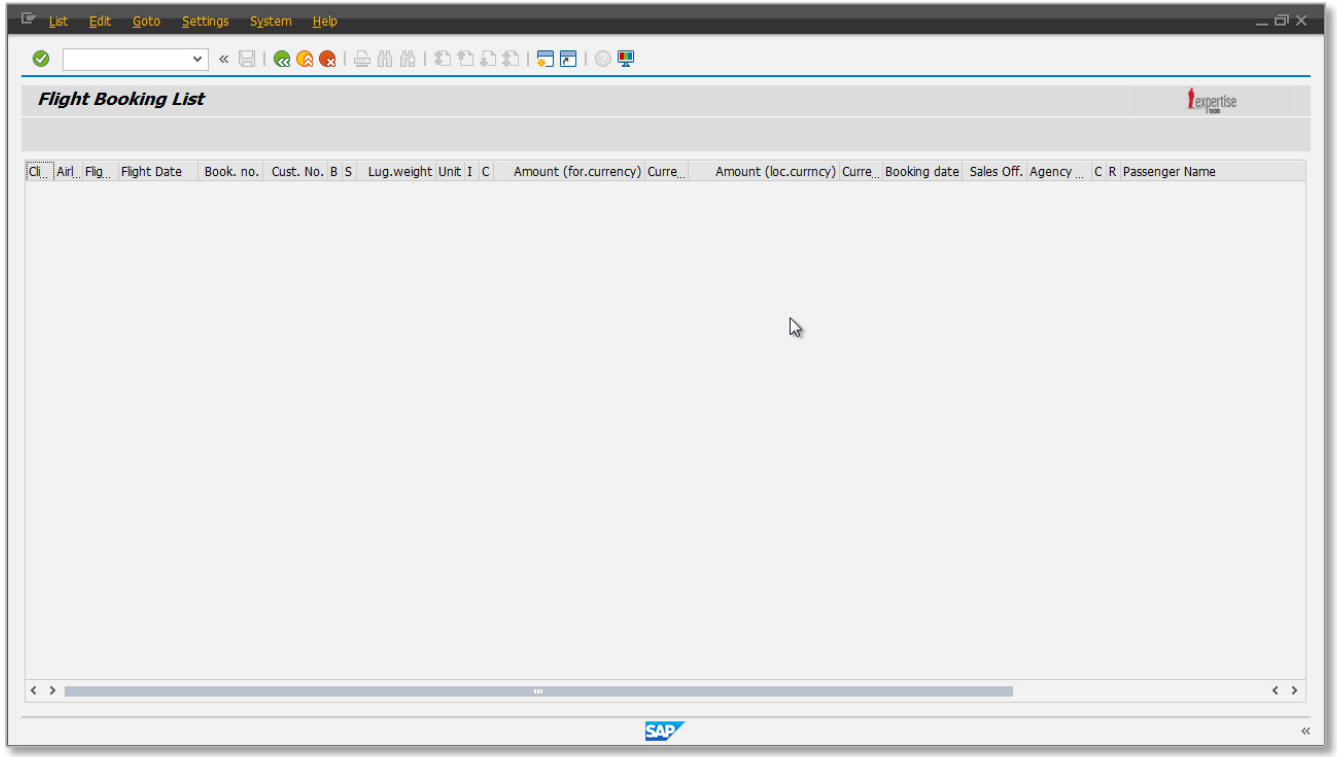


Airli...	Flight No.	Flight Date	Book. no.	Cust. No.	B/P cust.	Smoker	Lug.weight	Unit	Invoice	Class	Amount	Currency	Amount	Currency	Booking date	Sales Off.	Agency No.	Passenger Name
AZ	788	09.03.2010	6704	3551	P	X	0	KG	X	Y	978,50	EUR	978,50	EUR	02.06.2009	21		Joschka Dumbach
AZ	788	09.03.2010	6705	389	P		0	KG	X	Y	927,00	EUR	927,00	EUR	27.05.2009	21		Peter Delon
AZ	788	09.03.2010	6708	4012	P		13,2000	KG	X	Y	1.030,00	EUR	1.030,00	EUR	22.05.2009	21		Ulla Legrand
AZ	788	09.03.2010	6711	1769	P		0	KG	X	Y	978,50	EUR	978,50	EUR	29.04.2009	21		Peter Picard
AZ	788	09.03.2010	6713	154	P		25,6000	KG		Y	906,40	EUR	906,40	EUR	08.06.2009	21		Anita Acht
AZ	788	09.03.2010	6726	578	P	X	21,2000	KG	X	Y	875,50	EUR	875,50	EUR	13.07.2009	21		Thilo Columbo
AZ	788	09.03.2010	6727	852	P		0	KG		Y	1.030,00	EUR	1.030,00	EUR	14.05.2009	21		Christine Detemple
AZ	788	09.03.2010	6733	252	B		20,8000	KG	X	Y	988,80	EUR	988,80	EUR	25.06.2009	21		
AZ	788	09.03.2010	6736	2508	P	X	27,3000	KG		Y	927,00	EUR	927,00	EUR	04.07.2009	21		Georg Deichgraeber
SQ	158	09.03.2010	10412	1534	P		27,7000	KG	X	Y	420,57	SGD	420,57	SGD	09.05.2009	72		Marta Matthaeus
UA	3516	09.03.2010	12314	3297	P	X	21,2000	KG	X	Y	611,01	USD	611,01	USD	06.07.2009	33		Dominik Gutenberg
UA	3516	09.03.2010	12315	4558	P		0	KG		Y	611,01	USD	611,01	USD	15.06.2009	33		Amelie Gahl
UA	3516	09.03.2010	12321	788	P		20,8000	KG	X	Y	611,01	USD	611,01	USD	13.03.2009	33		August Hoffmann
UA	3516	09.03.2010	12324	1537	P	X	27,3000	KG		Y	549,91	USD	549,91	USD	06.05.2009	33		Horst Prinz
AZ	788	09.03.2010	6734	803	P		11,5000	KG		Y	803,21	USD	875,50	EUR	14.07.2009		55	Stephen R.J.Martin
UA	3516	09.03.2010	12322	2093	P		11,5000	KG		Y	611,01	USD	611,01	USD	18.05.2009		55	Christoph Prinz
AZ	788	09.03.2010	6693	3531	P		0	KG		Y	978,50	EUR	978,50	EUR	27.06.2009		87	Friedrich Benjamin
AZ	788	09.03.2010	6699	3611	P		0	KG		Y	978,50	EUR	978,50	EUR	19.03.2009		93	Irmgard Trensch
AZ	788	09.03.2010	6717	1794	P	X	0	KG		Y	927,00	EUR	927,00	EUR	13.03.2009		100	Fabio D´Oultrement
AZ	788	09.03.2010	6720	225	B		0	KG		Y	978,50	EUR	978,50	EUR	10.03.2009		100	
UA	3516	09.03.2010	12329	3457	P		18,6000	KG	X	Y	566,10	EUR	519,36	USD	09.05.2009		101	Simon Weiss
AZ	788	09.03.2010	6709	645	P		27,6000	KG		Y	734,94	AUD	978,50	EUR	20.04.2009		102	Joschka Kreiss
AZ	788	09.03.2010	6731	165	P		22,1000	KG	X	Y	734,94	AUD	978,50	EUR	25.05.2009		102	Chris Miller
SQ	158	09.03.2010	10411	3271	P		0	KG		Y	202,12	AUD	445,31	SGD	21.03.2009		102	Stephen Jeremias
UA	3516	09.03.2010	12319	4428	P		22,1000	KG	X	Y	425,19	AUD	519,36	USD	07.07.2009		102	Stephen Fischer
AZ	788	09.03.2010	6738	288	B		20,2000	KG		Y	1.363,56	SGD	824,00	EUR	12.05.2009		103	
UA	3516	09.03.2010	12326	1479	P		20,2000	KG		Y	1.102,10	SGD	611,01	USD	17.07.2009		103	Carmel Gahl

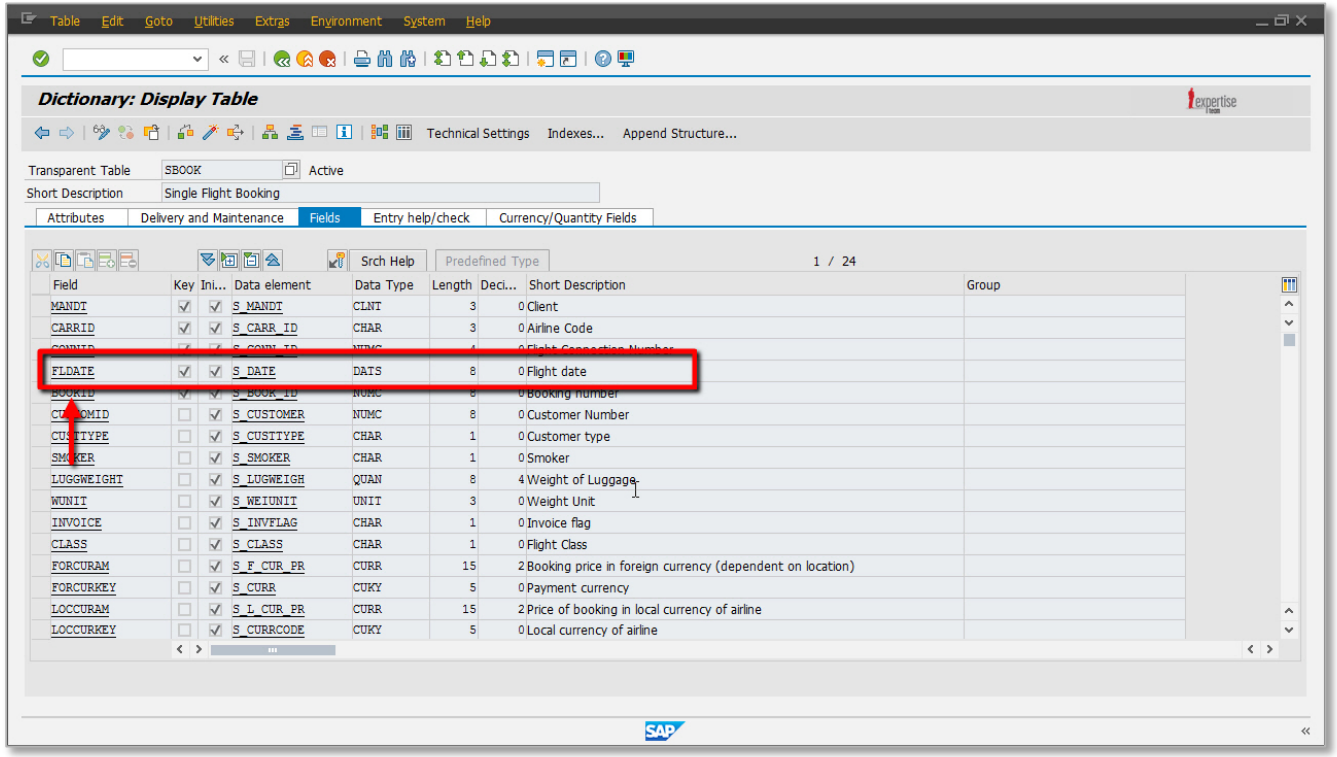
Creating
Z_FLIGHT_BOOKING_LIST



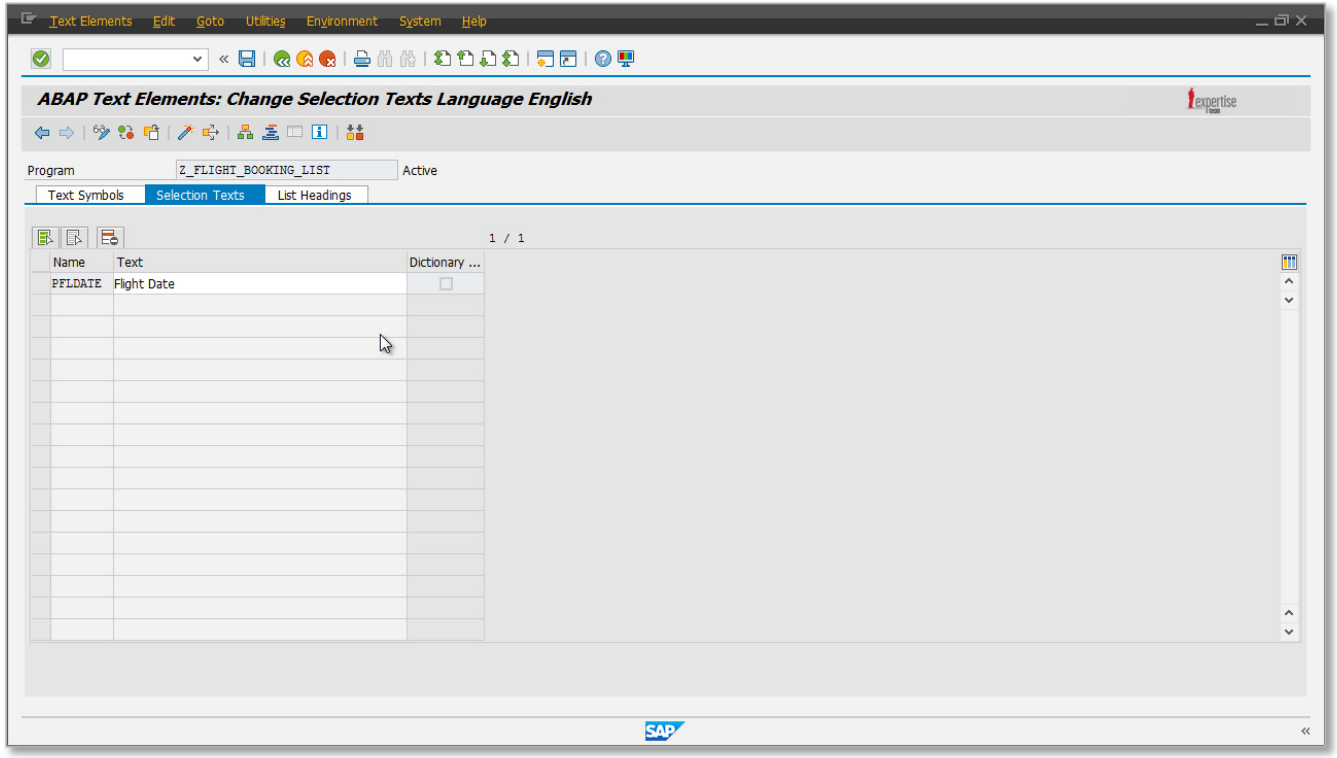
Instantiating an ALV List



Selecting Data from the Database



Defining a Selection Screen



Using Regions

Program Edit Goto Utilities Environment System Help

ABAP Editor: Change Report Z_FLIGHT_BOOKING_LIST

Pattern Pretty Printer

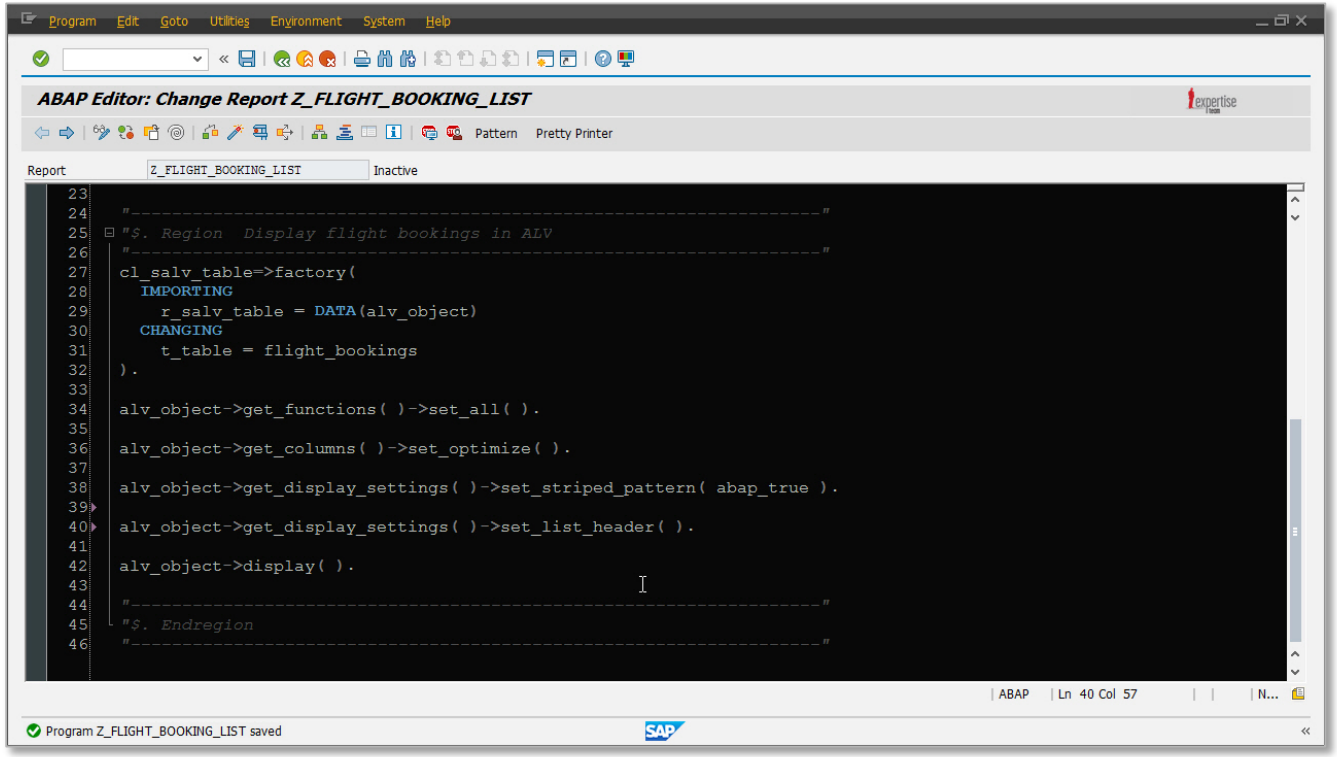
Report Z_FLIGHT_BOOKING_LIST Active

```
1  REPORT z_flight_booking_list.
2
3  "----------------------------------------------------------------------"
4  "$. Region  Define a selection field for Flight Date
5  "----------------------------------------------------------------------"
6  PARAMETERS pfldate TYPE d OBLIGATORY DEFAULT '20100313'.
7
8  "----------------------------------------------------------------------"
9  "$. Endregion
10 "----------------------------------------------------------------------"
11
12 DATA flight_bookings TYPE TABLE OF sbook.
13
14 SELECT * FROM sbook INTO TABLE flight_bookings UP TO 40 ROWS
15   WHERE fldate = pfldate.
16
17 cl_salv_table=>factory(
18   IMPORTING
19     r_salv_table = DATA(alv_object)
20   CHANGING
21     t_table = flight_bookings
22 ).
23
24 alv_object->display( ).
```

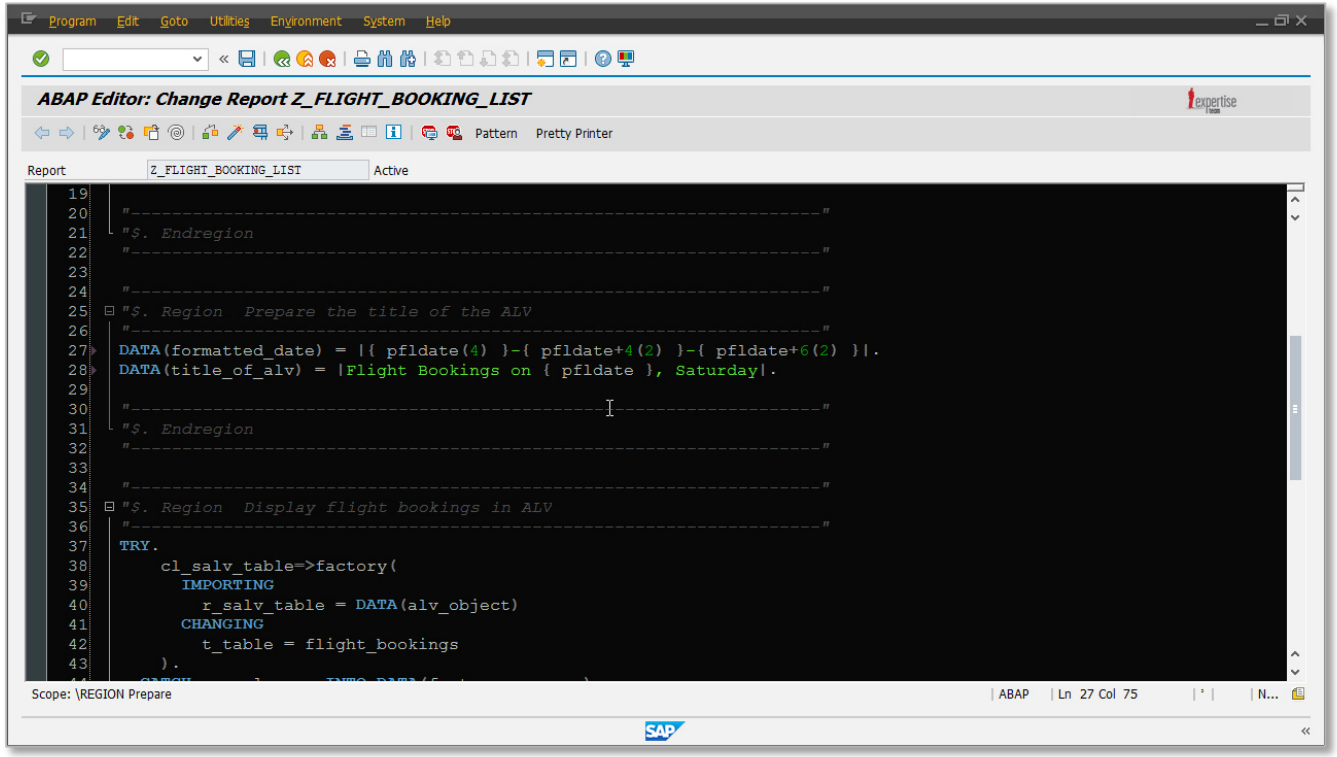
ABAP | Ln 10 Col 70 | ' | N...

#2 Trick
Code Templates

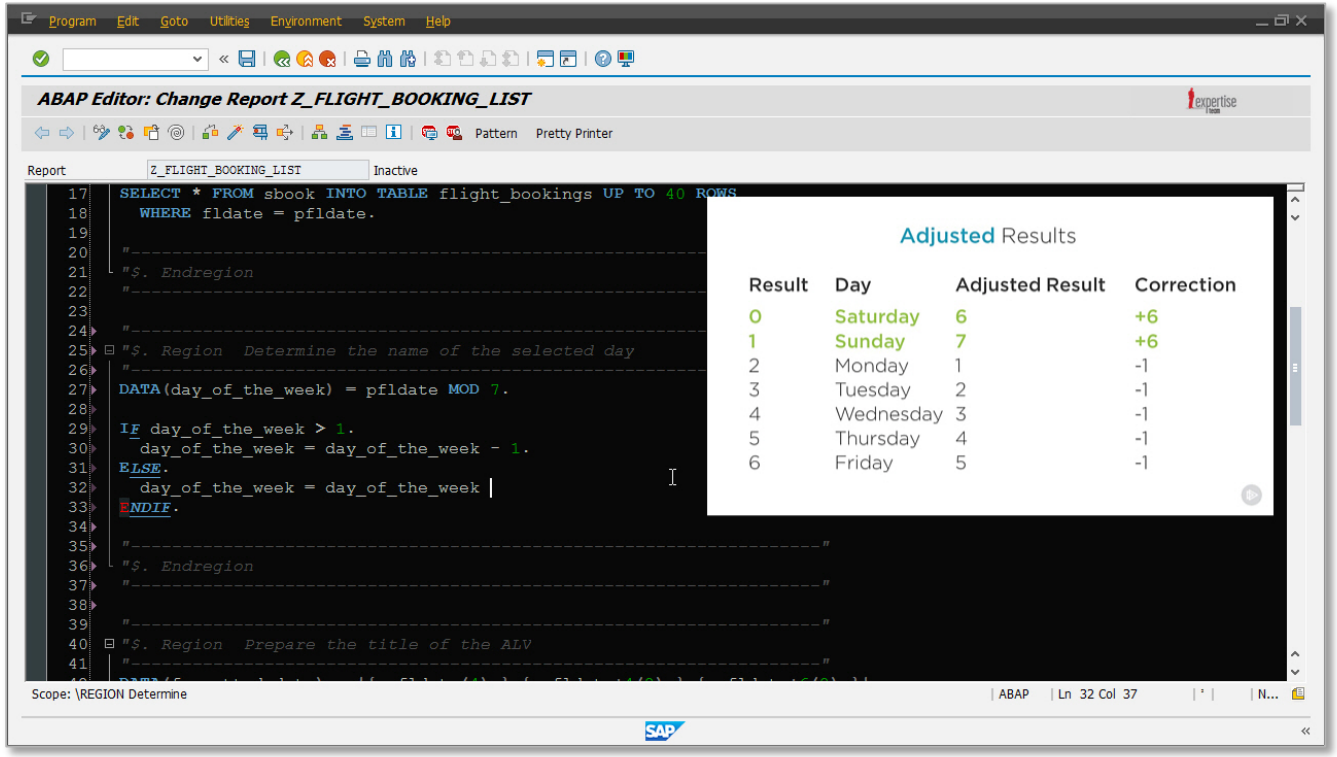
Customizing the ALV List



Formatting the Title of the ALV List



Determining the Name of the Day



Next

Creating Z_FLIGHT_BOOKING_LIST

Creating Z_FLIGHT_BOOKING_LIST

Instantiating an ALV List

Internal Table

Internal Table

Internal Table

SBOOK

Airline ID	Connection ID	Flight Date	Booking ID	Customer ID	Passenger Name

Internal Table

SBOOK

Airline ID	Connection ID	Flight Date	Booking ID	Customer ID	Passenger Name
AA	17	11.02.2009	1	2128	Simon Henry
AA	17	11.02.2009	2	1037	Jean Miguel
AA	17	11.02.2009	3	2553	Anna Matthaeus
AA	17	11.02.2009	5	4318	Christa Keller
AA	17	11.02.2009	6	675	Siegfried Madeya
AA	17	11.02.2009	7	777	Matthias Schneider
AA	17	11.02.2009	8	1750	Sophie Hunter
AA	17	11.02.2009	9	4322	Achim Detemple
AA	17	11.02.2009	10	2815	Joschka Deichgraeber

Selecting Data from the Database

Defining a Selection Screen

Using Regions

Customizing the ALV List

Formatting the Title of the ALV List

Determining the Name of the Day

Determining The Day of The Week

PFLDATE MOD **7** =

Determining The Day of The Week

20100313 MOD **7** = **6**

SATURDAY

6th day

Determining the Day of the Week

20100313 MOD **7** = **6**

Determining the Day of the Week

$$20100313 \text{ MOD } 7 = 0$$

Gregorian Calendar

0001.01.01
SATURDAY

Gregorian Calendar

Date	No. Days Past	No. Days Past MOD 7
0001.01.01 SATURDAY	0	0
0001.01.05 WEDNESDAY	4	4
2010.03.13 SATURDAY	733 845	0

Adjusted Results

Result	Day	Adjusted Result	Correction
0	Saturday	6	+6
1	Sunday	7	+6
2	Monday	1	-1
3	Tuesday	2	-1
4	Wednesday	3	-1
5	Thursday	4	-1
6	Friday	5	-1

Adjusted Results

Result	Day	Adjusted Result	Correction
0	Saturday	6	+6
1	Sunday	7	+6
2	**Monday**	**1**	**-1**
3	**Tuesday**	**2**	**-1**
4	**Wednesday**	**3**	**-1**
5	**Thursday**	**4**	**-1**
6	**Friday**	**5**	**-1**

Adjusted Results

Result	Day	Adjusted Result	Correction
0	**Saturday**	**6**	**+6**
1	**Sunday**	**7**	**+6**
2	Monday	1	-1
3	Tuesday	2	-1
4	Wednesday	3	-1
5	Thursday	4	-1
6	Friday	5	-1

Summary

Working with the ABAP Editor

- How to create Report Programs
- How to instantiate CL_SALV_TABLE
- How to query data from the Database
- How to define a Selection Screen
- What are the Regions
- What are the Code Templates
- How to customize the ALV list
- What are the String Templates
- How to determine the name a given day

Summary

Working with the ABAP Editor

Next Module

Working with the Function Builder

- What are the Regions
- What are the Code Templates
- How to customize the ALV list
- What are the String Templates
- How to determine the name a given day