

ABAP Last Exam

- 과제학습 성과

ALV / Screen / Table 등을 활용해서 ABAP Program을 생성할 수 있다.

- 과제명

1. ZRCLA##LAST으로 Report Program을 생성한다.

2. 예약 Table SBOOK을 메인 Table로 예약 현황을 조회한 후, 예약자에 대한 기내식 신청 현황을 확인하고, 기내식이 신청이 안되어 있는 경우 예약자의 기내식을 신청할 수 있다.



- 최종결과물

개발한 SAP Program명과 실행화면을 캡처 후 PPT로 SAP Jam에 등록한다.

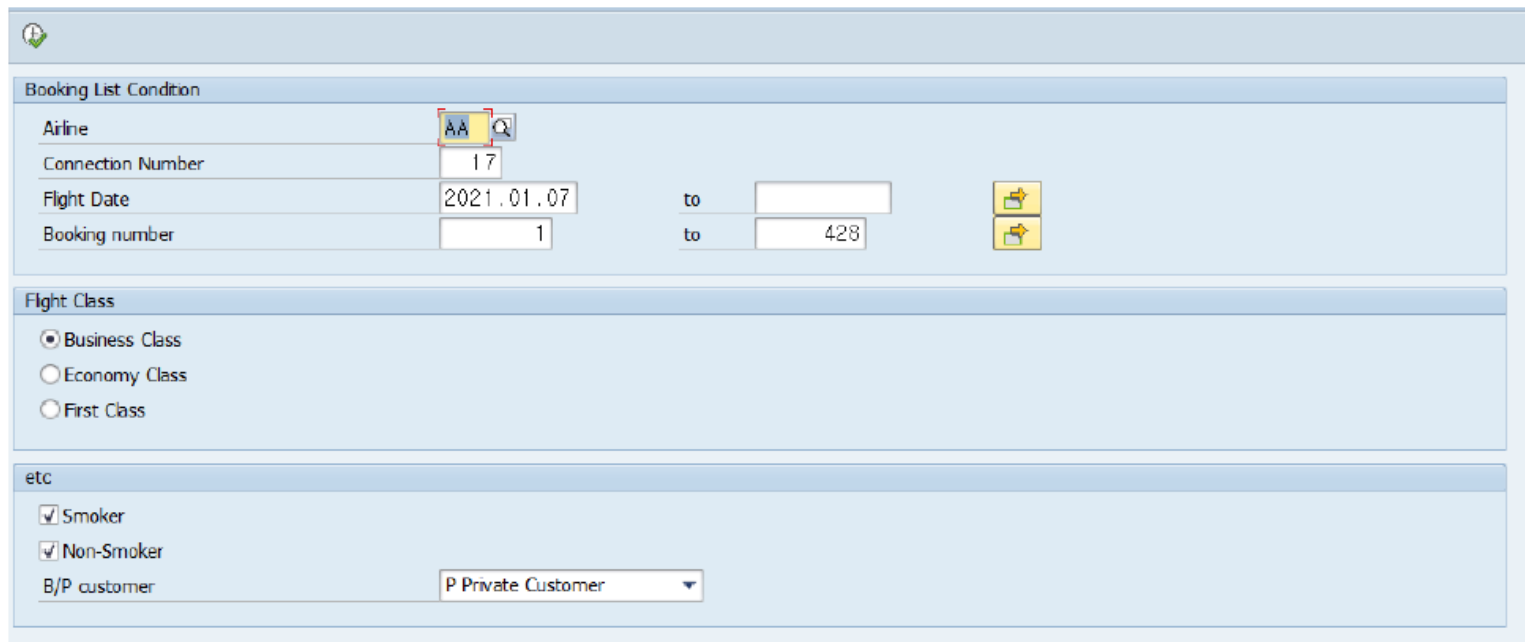
(과제가 있는 폴더에 제출하며, 파일명 예) CLASS_B_홍길동.ppt)

ABAP Last – Selection Screen

Level 1

1. Selection Screen

- Airline, Connection Number는 PARAMETERS (SBOOK-CARRID, CONNID)
- Flight Date, Booking Number는 SELECT-OPTIONS (SBOOK-FLDATE, BOOKID)
- Flight Class는 Radio Button (SBOOK-CLASS)
- Smoker 여부는 Check Box (SBOOK-SMOKER)
- B/P Customer는 Dropdown List box로 구현 (SBOOK-CUSTTTYPE)



The screenshot displays the 'Booking List Condition' selection screen. It features several input fields and controls:

- Booking List Condition:**
 - Airline:** A text field containing 'AA' with a search icon to its right.
 - Connection Number:** A text field containing '17'.
 - Flight Date:** A date field containing '2021.01.07'.
 - Booking number:** A text field containing '1'.
 - to:** A text field next to the date field, currently empty.
 - to:** A text field next to the booking number field, containing '428'.
 - There are two yellow icons with arrows pointing to the right, one next to each 'to' field.
- Flight Class:**
 - Three radio buttons are present: ☒ Business Class, ☐ Economy Class, and ☐ First Class.
- etc:**
 - Two checkboxes are present: ☒ Smoker and ☒ Non-Smoker.
 - B/P customer:** A dropdown menu showing 'P Private Customer'.

ABAP Last – ALV List

Level 2

1. Booking List 샘플 화면

- 1) SBOOK: CARRID, CONNID, FLDATE, BOOKID, CUSTOMID, CLASS, CUSTTYPE, LOCCURAM
- 2) SCUSTOM: NAME, CUSTTYPE
- 3) SBOOK의 CLASS와 CUSTTYPE은 Fixed Value의 Domain Text를 취득 (함수: DD_DOMVALUE_TEXT_GET 사용 가능)
- 4) CUSTTYPE은 SBOOK 테이블과 SCUSTOM 테이블 2곳에 존재하며,
 - SCUSTOM의 CUSTTYPE이 'B'이나, 예약을 'P'로 했을 경우에는 'B'로 표시 (단, 조회 조건은 SBOOK으로 함)
 - SCUSTOM의 CUSTTYPE과 SBOOK의 CUSTTYPE이 다른 예약인 경우에는 색으로 표시(Line Color 또는 Cell Color)

* Sample list 화면 (결과는 다를 수 있음)

Carrier No.	Flight Date	Booking Amount	Curr.	Cust. No.	Customer name	Customer t	Flight Cla
AA	17 2021.01.07	88 359.50	USD	2156	Christoph Kramer	Private Customer	Economy Class
AA	17 2021.01.07	112 359.50	USD	2220	Matthias Ryan	Private Customer	Economy Class
AA	17 2021.01.07	160 380.65	USD	1677	Georg Hoffen	Private Customer	Economy Class
AA	17 2021.01.07	314 359.50	USD	490	Allen Babilon	Private Customer	Economy Class
AA	17 2021.01.07	369 401.79	USD	2367	Roland Jeremias	Private Customer	Economy Class
AA	17 2021.01.07	393 380.65	USD	686	Lee Kramer	Private Customer	Economy Class
AA	17 2021.01.07	70 380.65	USD	2585	Ulla Matthaeus	Private Customer	Economy Class
AA	17 2021.01.07	72 380.65	USD	2119	Christa Benz	Private Customer	Economy Class
AA	17 2021.01.07	95 380.65	USD	3973	Andrej Gahl	Private Customer	Economy Class
AA	17 2021.01.07	162 401.79	USD	1439	Johannes Miguel	Private Customer	Economy Class
AA	17 2021.01.07	168 401.79	USD	2527	Anne-Marie Martin	Private Customer	Economy Class
AA	17 2021.01.07	222 401.79	USD	3659	Andrej Moyano	Private Customer	Economy Class
AA	17 2021.01.07	275 422.94	USD	2145	Hendrik Leisert	Private Customer	Economy Class
AA	17 2021.01.07	303 380.65	USD	2721	Kurt Sisko	Private Customer	Economy Class
AA	17 2021.01.07	308 401.79	USD	3579	Christa Koslowski	Private Customer	Economy Class
AA	17 2021.01.07	330 380.65	USD	489	Andrej Legrand	Private Customer	Economy Class
AA	17 2021.01.07	351 422.94	USD	1430	Guillermo Matthaeus	Private Customer	Economy Class
AA	17 2021.01.07	353 380.65	USD	3279	Marta Pratt	Private Customer	Economy Class
AA	17 2021.01.07	376 359.50	USD	3192	Astrid Domenech	Private Customer	Economy Class
AA	17 2021.01.07	71 380.65	USD	3428	Christoph Eichbaum	Private Customer	Economy Class

ABAP Last –Flight Meal Request

Level 7

1. 기내식 신청화면 Application Toolbar에서 하나의 라인을 선택 후 'Request Meal Menu' 를 클릭하면, 기내식 신청화면으로 이동
 - 1) SMENU Table에서 관련 항공사의 기내식 정보를 List를 표시 (기내식 신청 시 선택할 수 있도록)
 - 2) 기내식 중에 하나만 선택한 후에 저장 버튼을 클릭하면, 기내식 신청 Table(ZTREQCLB##)에 저장
 - 화면에는 안보이나 ALV 앞에 선택 버튼이 있어야 하며, 동시 여러 개 선택 후 저장 시 에러 처리함.
 - Booking Info 헤더에 Request Date (오늘날짜를 Default로)

Inflight Meal List

Booking Info

Airline: AA
Flight Number: 17
Date: 2021.01.07
Booking Number: 88
Customer Number: 2156 Christoph Kramer

Request Date: 2021.01.07

Select Flight Menu

Carri...	Airline	Menu	Appetizer	Dish description	Main crse	Dish description	Dessert	Dish description
AA	American Airlines	1	1	SEASONAL SALAD	8	WIENER SCHNITZEL	23	CHOCOLATE ICE CREAM
AA	American Airlines	2	1	SEASONAL SALAD	20	MINI FRIED SOLE	28	RASPBERRY SORBET
AA	American Airlines	3	4	HAMBURG SALAD WITH FRESH SHRIMPS	19	SOLE	27	APPLE STRUDEL
AA	American Airlines	4	2	NICE SALAD	13	BAVARIAN DUCK	24	VANILLA ICE CREAM
AA	American Airlines	5	2	NICE SALAD	9	PORK SCHNITZEL	25	VANILLA ICE CREAM WITH HOT CI
AA	American Airlines	6	2	NICE SALAD	11	CHICKEN AND FRENCH FRIES	25	VANILLA ICE CREAM WITH HOT CI
AA	American Airlines	7	2	NICE SALAD	22	SALMON LASAGNE	29	STRAWBERRY SORBET
AA	American Airlines	8	2	NICE SALAD	8	WIENER SCHNITZEL	27	APPLE STRUDEL
AA	American Airlines	9	1	SEASONAL SALAD	8	WIENER SCHNITZEL	25	VANILLA ICE CREAM WITH HOT CI
AA	American Airlines	10	3	PARIS SALAD	11	CHICKEN AND FRENCH FRIES	27	APPLE STRUDEL

ABAP Last – ALV List Field 추가

Level 4

1. Booking List에 Flight Meal 정보 추가 샘플 화면

- 1) 기내식 신청여부를 Icon으로 표시 (해당 예약에 대해 최신 신청 내역이 "Requested"이면 Green, 그 외는 Red)
- 2) 기내식 신청 Status에 대한 Domain Fixed Value Text 표시
 - 가장 최근 신청 일자의 상태가 Requested가 아니면 "Not Requested"로 표시 (Domain Fixed Value 텍스트 활용)

* Sample list 화면



Inflight Meal List											
Request Meal Menu											
Status	Status	Carrier	No.	Flight Date	Booking	Amount	Curr.	Cust. No.	Customer name	Customer t	Flight Cla
	Requested	AA	17	2021.01.07	88	359.50	USD	2156	Christoph Kramer	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	112	359.50	USD	2220	Matthias Ryan	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	160	380.65	USD	1677	Georg Hoffen	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	314	359.50	USD	490	Allen Babilon	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	369	401.79	USD	2367	Roland Jeremias	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	393	380.65	USD	686	Lee Kramer	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	70	380.65	USD	2585	Ulla Matthaeus	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	72	380.65	USD	2119	Christa Benz	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	95	380.65	USD	3973	Andrej Gahl	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	162	401.79	USD	1439	Johannes Miguel	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	168	401.79	USD	2527	Anne-Marie Martin	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	222	401.79	USD	3659	Andrej Moyano	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	275	422.94	USD	2145	Hendrik Leisert	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	303	380.65	USD	2721	Kurt Sisko	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	308	401.79	USD	3579	Christa Koslowski	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	330	380.65	USD	489	Andrej Legrand	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	351	422.94	USD	1430	Guillermo Matthaeus	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	353	380.65	USD	3279	Marta Pratt	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	376	359.50	USD	3192	Astrid Domenech	Private Customer	Economy Class
	Not Requested	AA	17	2021.01.07	71	380.65	USD	3428	Christoph Eichbaum	Private Customer	Economy Class

ABAP Last –Flight Meal Request

Level 6

1. Booking List에 Flight Meal 정보 추가 샘플 화면

- 기내식 신청 상태가 'Requested' 라면, 이미 신청한 기내식이 있습니다.' 메시지만 표시하고 이동하지 않음
- 신청은 한번에 하나의 예약에 대해서만 처리 가능함. 즉, 여러 건을 선택할 수 없게 처리

Inflight Meal List											
Request Meal Menu											
Status	Status	Carrier No.	Flight Date	Booking	Amount	Curr.	Cust. No.	Customer name	Customer t	Flight Cla	
	Requested	AA	17 2021.01.07	88	359.50	USD	2156	Christoph Kramer	Private Customer	Economy Class	
	Not Requested	AA	17 2021.01.07	112	359.50	USD	2220	Matthias Ryan	Private Customer	Economy Class	
	Not Requested	AA	17 2021.01.07	160	380.65	USD	1677	Georg Hoffen	Private Customer	Economy Class	
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	Not Requested	AA	17 2021.01.07	393	380.65	USD	686	Lee Kramer	Private Customer	Economy Class	
	Not Requested	AA	17 2021.01.07	70	380.65	USD	2585	Ulla Matthaeus	Private Customer	Economy Class	
	Not Requested	AA	17 2021.01.07	72	380.65	USD	2119	Christa Benz	Private Customer	Economy Class	
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	Not Requested	AA	17 2021.01.07	376	359.50	USD	3192	Astrid Domenech	Private Customer	Economy Class	
	Not Requested	AA	17 2021.01.07	71	380.65	USD	3428	Christoph Eichbaum	Private Customer	Economy Class	

ABAP Last – ALV Event 활용

Level 5

1. 신청한 기내식 정보 화면

- 1) ALV에서 기내식 상태 또는 상태 icon를 더블 클릭하면 기내식 정보를 Popup Screen으로 표시
 - 기내식 신청 내역이 없거나, 최근 신청 상태가 'Requested'가 아니면, '아직 신청한 기내식이 없습니다.'
 - 라고 메시지만 표시함

* Sample Popup 화면

Requested Meal Menu		
Appetizer	1	<input type="checkbox"/> ASONAL SALAD
Main crse	20	MINI FRIED SOLE
Dessert	28	RASPBERRY SORBET

ABAP Last – Flight Meal Request Table 생성

Level 3

1. Flight Meal Request 현황 Table 생성

1) ZTCL~~A~~##REQ로 Table 생성

2) SBOOK의 모든 Key Field + Request Date를 Key Field로 구성

3) 추가 Field: 메뉴 넘버(SMENU Table 참조)와 Request Date 그리고 Request Stats Field 추가

- Request Stats는 R:'Requested', N:'Not Requested', C:'Cancelled'를 Fixed Value로 설정

* 예약 고객에 대한 기내식 신청은 하루에 한번만 가능

- 같은 날 다른 기내식으로 저장하면 UPDATE가 되고, 다른 날 신청하면,
기존 기내식 신청 건은 Cancelled 되고, 새롭게 신청한 기내식이 Requested로 해서 INSERT가 되어야 함.

* Table Key & Field Sample 화면

<u>CARRID</u>	Airline Code
<u>CONNID</u>	Flight Connection Number
<u>FLDATE</u>	Flight date
<u>BOOKID</u>	Booking number
<u>REQDT</u>	Request Date
<u>MENUNUMBER</u>	Menu number
<u>MSTAT</u>	Req Status