

The Testing Criteria for the Planning and Development Division Information System

5.1 Testing Steps

The testing steps can be described as follows:

- Select the menu option 1 from Master Menu to display Planning and Development Main Menu.
- Select the menu option 1 from the Planning and Development Mian Menu to display Item Menu.
- Select the menu option 1 from the Item Menu to start loading of ORACLE RDBMS.
- Select the information option that is to be tested, to start running of the form.
- Add, update and delete the test data alternately into or from the database table via the form.
- Query the data from database table with searching information items.
- Retrieve the Planning and Development Main Menu, select menu option 2 to enter the environment of Lotus 1-2-3 (to which ORACLE add-in for Lotus 1-2-3 is attached).
- Retrieve Main Menu of the designed worksheet to display menu options of macros for the specific type of information and activate the macro of the required type for information to be tested.
- Fill in the cell of variables with the specific value of the data, It is used for matching during the search operation.
- Activate the macro in the information worksheet to display graphs as required.

Note: The steps in utilizing the Planning and Development Division Information System can be studied in more details in the user manual.

5.2 An Example of the Testing

Personnel information is to be selected as an example for the testing, The steps of testing the example can be explained as follows:

- When the data manipulation is to be tested, the personnel form is first run, as shown below:

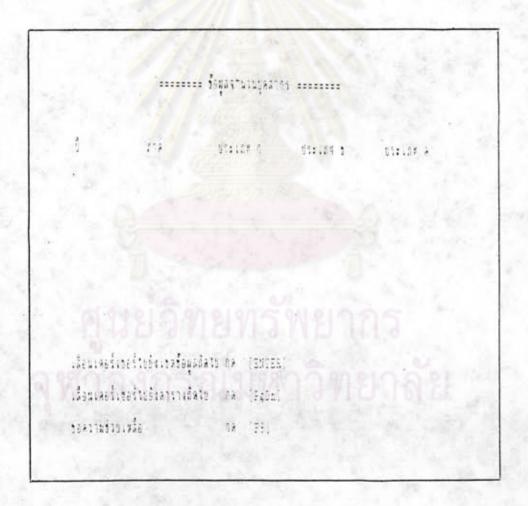


Figure 5.1 : A screen lay-out of PERSONNEL form when it is first run

- Fill in the block fields with data required and then commit it into the database table. This is a test to observe if the adding of data is successful. The data is instored when the caption, "Transaction completed", appears at the bottom of the screen, as shown:

		== รื่อผูลจานานบุคลา		
				.,
j	918	bs: lak a	15:122 2	jii lon s
2523	16	1	12	20
2528	18	12	17	15
2528	14	9	10	12
2529	10	6	11	3
2523	18	10	18	18
2529	1×	11	14	11
2530	10	5	10	. 23
2530	18	8	12	13
2530	18	11-	10	17
เลื้อนเคอร์เซอร์โบฮัเ	itelekačsis	AA [ENTER]		
เลื่อนเลอร์เซอร์โปรัง	ดารางสัตโช	na (PgDn)		
เอลาามร่าธเหลือ	0.618	68 [F8]		

Figure 5.2: A screen lay-out of PERSONNEL form when it is filled with the data

- Push the key for entering the query environment and then fill in the specific block field with the data that is to be searched. For example, the matching item, for this case it is the year 2528, is typed in, as shown:

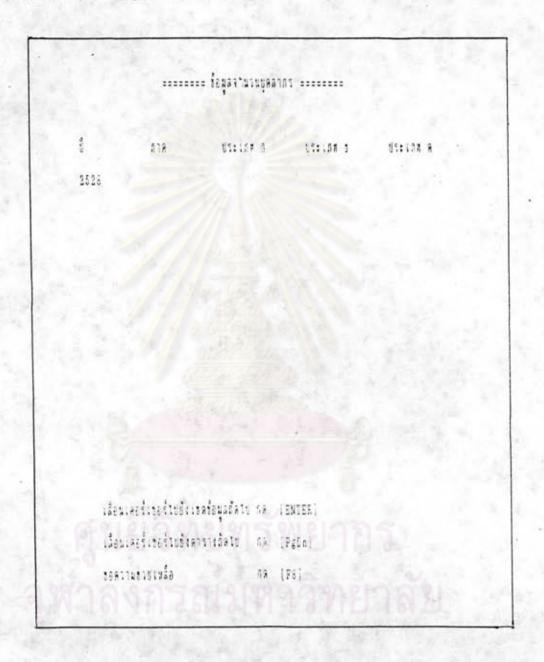


Figure 5.3: A screen lay-out of PERSONNEL form when it is filled with the specific data to be searched

- Invoke the query key to retrieve the required data. This is to ensure that the query operation is successful when all required data appears on the screen, as shown:

		4	== รื่อมูลจานานยุลลา	15	
				100	
	1	#1A	ประเทส ค	15:13# \$ ·	15:13# A
	2528	10	1	12	20
	2523	18	12	17	15
	2528	18	9	10	12
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iåeu.	เลอร์เจอร์เซอ	rianieuscals	na [ENTER]		
15811	เคอร์เซอร์เซอ	เตารางตัดไป	na [PgDa]		
1881	ามราธเหลือ		54 (98		

Figure 5.4: A screen lay-out of PERSONNEL form on which the required data is shown

- Change the data value in the field under the column labeled, "USZIAM A", of the department name, "AA", from the value of 7 to the value of 12. Then, commit the change to the database table. The test is to ensure that the update operation is successful when the caption, "Transaction completed", appears, as shown:

	*********	ะ ร้อมูลจานานยุคลา	A1 :::::::	
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2528	18	12	15	15
2528	3x	9	10	12
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เลื่อนเคอร์เซอร์เซอร์เซอร์เลา	รางส์ตรับ กด	[240x]	ยากร	
ขอดวามช่าย เพลี่ย	150	(N)		
ransaction complet				

Figure 5.5: A screen lay-out of PERSONNEL form when the data is to be changed

- Place the cursor at the last row of the display, and then activate the delete key. Afterwards, commit the rest of the data to the database table. The test is to ensure that the delete operation is successful when the deleted row disappears and the caption, "Transaction completed", appears, as shown:

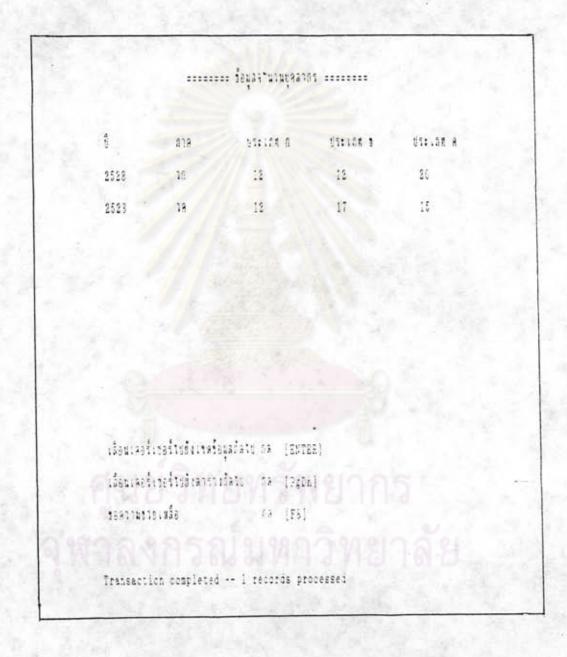


Figure 5.6: A screen lay-out of PERSONNEL form from which the data is to be deleted

- When the graphic presentation is to be tested, the personnel information worksheet is retrieved, as shown:

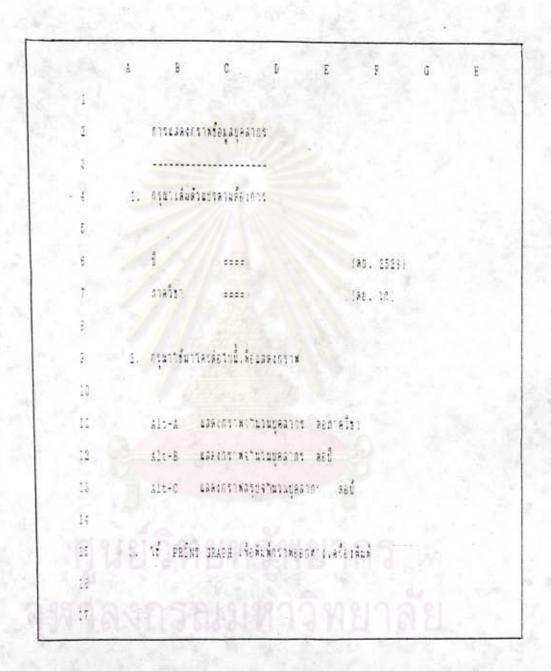


Figure 5.7: A worksheet lay-out for personnel information when it is first retrieved

- Fill in the cell of variables with the specific value of the year 2528 and department name, " $\eta \eta$ ", as shown:

	A	В	C	D	E	F	G	E
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2		การแลงเกร	าหร้อมุลบุคลา	ns				
3				4				
4	1.	กรุญาเดิมล้ว	ดบรดามต้องก	15				
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6		10	(1111)	2528		(ME. 2528)		
7		กาควิธา	1111)	1n †		(88. 15)		
8						100		
9	2.	กรุญาเล่นาเ	เลงส่องประเพล	ERREDSTR				
10								
11		Alt-A	1399057857	นาะบุคลากร	aaana'	it)		
12		Alt-8	1221957417	นานบุคลากร	ดอปี			
13		Alt-C	1281057 X 25	ปรานานยุลลา	15 A	8 0		
14								
15	1.	S PRINT	GRAPH LÅS	พันธ์กราพอยก	หางเครื่อ	e kuk		
16								
17								

Figure 5.8: A worksheet lay-out for personnel information when the specific data is filled in the cell of variables

- Invoke the macro to show the graph , as displayed:

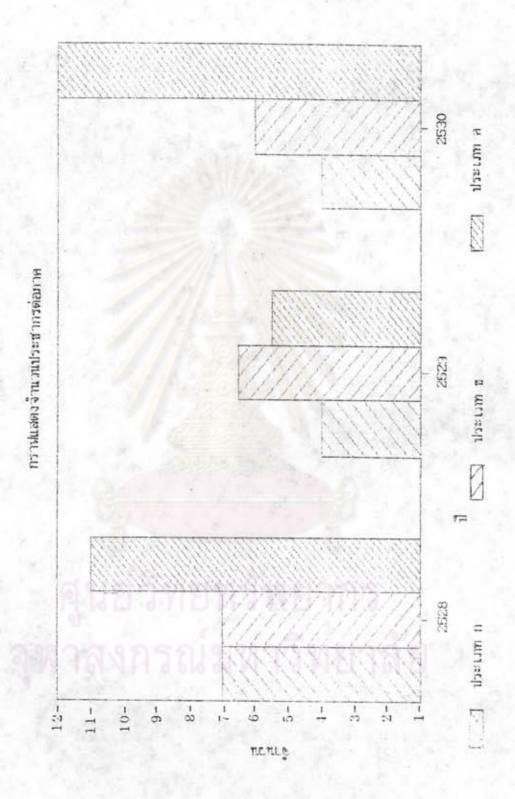


Figure 5.9: The graph showing the numbers of personnel in the department name, "70", classified by type