Summary: This database illustrates a moderately complex database that has evolved over a number of years from one originally written in Fortran and running under DOS.

Database Name: Shord – Shop Order Control System

Company Size: 30 personnel in one location

Company Product: drilled circuit boards

Business Objective: Save personnel and calendar time by quickly providing accurate data on customer jobs and enabling minimum data entry on repeat/similar jobs.

History: This database was originally written by the customer in Fortran in the 1980s, converted to Borland Paradox (DOS) by us in 1993, then to Access 2000 in early 2000. New features were added in 2001.

IT Environment: A Novell Server based network with approximately 12 PCX workstations running Windows 98 and Windows 2000. There are approximately 3 users of this database using 3 separate PC workstations.

Development Time: Total time for what is shown here was 425 hours. The initial version took 200 hours for the conversion (including data cleanup) over a 4 month (part time) period with an additional 85 hours over a 7 month period for additional editing, error corrections and data cleanup. A subsequent upgrade took 140 hours over a 6 month period.

Notes: Conversion effort included data cleanup because the Access DB had more edits than the Paradox DB did. However, the data cleanup was done on an as needed basis. Thus, there are a couple of buttons on the Main Menu for data cleanup as shown below.

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	Application Startup Got LAN UserID. Click OK to continue. OK		
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When the User clicks on their Desktop icon for this DB, the AutoExec macro starts VBA code that automatically checks for and validates the Novell UserID. There is no User signin. If the Novell UserID is not in the list of valid UserIDs then the process terminates immediately.



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These figures show the Parts Menu and the Parts data maintenance form.	
Snop Order Control System - [Parts] Register Format Records Tools Window Help	
Parts Changes Print Part Info Print This Ch	ose
Part: 1164 Board Type: NPTH Non Plated Thru Hole PCB Part Inactive? Customer: CopperMade 2150 Customer Inactive? Image: CopperMade 7/2/2001 4:41:01 Job ID: OLD REV Job Name: ANTENNA SPEC Job No.: 56:A:53 Rev.: NONE Date Initially Ordered: 3/22/1977 Programmed By: MCD Y Machine Type: DRL Y	d: I PM
Material: Copper Weight: 1/0 - Type: FR-4 - Thickness: 0.062 Backup: Standard - Overlay: Entry Foi	i _
Panel Size X: 12.0000 by Y: 24.1000 Panel Pin Loc: 6.250 Parts per Panel: 45 No. Drill Sizes: 2 Drill Stack Ht: 4 No. Hits: 1064 Note: these values will eventually be replaced by the Operations Details Price: By: No. Rtr Sizes: Rout Stack Ht: Rout Dist.: 1064 Note: these values will eventually be replaced by the Operations Details	-
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Shop Order Control S	System - [Travelers]		
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Shop Order Control S	System - [MAIN MENU]	ws the System Parameters used through	
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System Parameter	S		
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This sets the default (choice on the Customers Parts and Shon	Arders Menus:	
C All Customers C Active Custom C Inactive Custo	ers Only mers Only C Inactive Parts Only	All Shop Orders Open Shop Orders Only Closed Shop Orders Only	
This sets the default of	Choice for lists on the Customers, Parts, an Sort Parts List by: C Part Program No. C Customer by Part Program No C Customer by Job No. and Re C Customer by Job Name, No.,	Sort Shop Orders by: • •	
These control the new	w Lustomer, Part, and Shop Urder Numbers	on Adds:	
Note: setting the Cur	stomer Number Increment - zoro will coult	in the User having to enter it for New Customers	
This is automatically s	set to the directory the .mdb is in:		
DB DIR: D:\PC	PossiWebDB\Shord Cha	inge Root DIR Root Drive (C, G, etc.):	
S is pointing to: C:\Doc	uments and Settings\ServerXP400\My Doc		
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Form View			NUM



These figures illustrate User Definable Ad Hoc Queries. No need for a programmer to write or modify code (although they may require phone support for the actual SQL statement). These Queries can be used on the Customer, Parts, and Orders Menu as needed and defined by the User. However, only a SuperUser can define these Queries.

WebDBSample_ShopOrders.doc

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	Parts - With Matl Type 'FR-4' [Matl Type] like "PO		6/28/2001	1:47:50 F
	Parts - With Overlay N= EO Plus and Tool Type = [Overlay] not like "E Parts - With Overlay Type 'Foil" [Overlay Type] like '	U Plus" and [Tool Type] like" "Foil"	6/28/2001 4:	26:24 Fi 5:16:11 F
	Parts - With Programmed By = [Programmed By] lik	e "RCA"	6/26/2001	5:20:26 F
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The above figure illustrates the table relationships of this database application.