



CUSTOM REPORTS USING EXCEL & ODBC

by Charles Owen

Technical Level:

Easy

Intermediate

Advanced

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What is ODBC?



• Open DataBase Connectivity

 Definition: Open Database Connectivity (ODBC) is an open standard application programming interface (API) for accessing a database. By using ODBC statements in a program, you can access files in a number of different databases, including Access, dBase, DB2, <u>Excel</u>, and Text.



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Why Use Excel & ODBC?



- Quickly create custom reports
- Enables customers to access their POS data in a column and row format
- Batch changes to data are expedited
- Easily create custom reports, with where, if and then statements and sorting



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What Information am I Limited to?

	paladin - INVENTORY			×
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	<u></u>	paladin - CUSTON	AER	
mer: SYSDBA	CUSTOMER: Table ×			
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F1-14		The second se		
Field	CUSTOMER			
	Owner: SYSDBA			
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INV ALTPARTNOMB	Field	Туре	NULL Defau	alt Description
COLINY DESCRIPTION	CUST_DELETED	Char(1)	not null	No description (edit)
INV DESCRIPTION?	CUST_ACCTNUMBER	Integer	not null	No description [edt]
QUNV LOCATIONID	CUST_NAME	Varchar(50)	not null	No description [edit]
	CUST_CONTACTADDRESS1	Varchar(50)	not null	No description [odd]
	CUST_CONTACTADDRESS2	Varchar(50)	not null	No description [edit]
Q INV CLASSID1	CUST_CONTACTCITY	Varchar(50)	not null	No description (edit)
Q INV SUBCLASSID1	CUST_CONTACTSTATE	Char(2)	not null	No description [edf]
Q INV CLASSID2	CUST_CONTACT2IP	Varchar(10)	not null	No description (edd)
INV SUBCLASSID2	CUST_DELIVERYSAMEASCONTA	CT Char(1)	not null	No description [edit]
Q INV CLASSID3	CUST_DELIVERYADDRESS1	Varchar(50)	not null	No description (edd)
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NV WEIGHT		Varchar(50)	not null	No description (edit
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INV SEASONAL		Varchar(10)	not null	No description (cold)
INV SEASONSTART	GO CUST PHONE	Char(10)	not null	No description fedit
INV SEASONEND	S CUST FAX	Char(10)	not null	No description [edit]
INV STOCKONHANE	GO CUST CELLPHONE	Char(10)	not null	No description [edit]
INV_QTYONORDER	CUST EMAIL	Varchar(50)	not null	No description [edit]
INV_QTYDEF	CUST EMAILINVOICES	Char(1)	not null	No description [edit]
INV_ORIGINDATE	CUST EMAILSTATEMENTS	Char(1)	not null	No description [edt]
INV_SUPPLIERRATIC	CUST_BIGFORMFORINVOICES	Char(1)	not null	No description [edit]
INV_MINSTOCK	CUST_SALESRPT1INVPERPAGE	Char(1)	not null	No description (edit)
INV_MAXSTOCK	CUST_CHECKOUTNOTE	Varchar(512)	not null	No description [edit]
INV_MINORDERQTY	GO CUST_CREDITLIMIT	Decimal(18,2)	not null	No description (edt)
INV_BROKENCARTC	CUST_STATETAX	Integer	not null	No description (edt)
INV_DAYSPCT	CUST_COUNTYTAX	Integer	not null	No description (edd)
Blocalbert CAPstation00	CUST_CITYTAX	Integer	not null	No description [sdt]
algrocalhostic:\PaladinPOS	CUST_TRACKINGNUMBER	Integer		No description [edit]
	CUST APPLYSERVICECHARGE	Char(1)	not null	No description (edd)

- Paladin customers can get access to most tables in paladin POS
- ODBC only works for exporting data out of POS
- The Paladin <u>Data Viewer</u> can be used to import inventory and customer tables



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Accessing ODBC Using Excel



- In Excel, Go to FILE;
- Select DATA;
- From Other Sources;
- From Microsoft Query;
- Select '*Paladin' Data Source



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Selecting Tables and Fields

Available tables and columns: INVENTORY INV_ID	Columns in your query:		• App
INV_ALTPARTNUMBER INV_MFGPARTNUMBEF INV_DESCRIPTION2	Query Wizard - F	ilter Data	• Set :
<	If you don't want to filter the data, click Next. Column to filter: Only include rows when	e: Query W	izard - Sort Order
Preview Now Option	INV_PARTNUMBER INV_DESCRIPTION1 INV_STOCKONHAND INV_MKTCOST INV_UNITCOST INV_UNITCOST INV_UNITCOST INV_UNITCOST INV_UNITCOST	Specify how you want your data sorted. If you don't want to sort the data, click Next Sort by INV_DESCRIPTION1 Then by to INV_PARTNUMBER INV_STOCKONHAND INV_MKTCOST INV_UNITCOST	Ascending Ascending C Ascending C Ascending C Ascending C Ascending C Ascending C Descending

- Select the table
- Select the fields/columns
- Apply filters (optional)
- Set sort order (optional)



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Instant Results

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3 50637		SPLINE SCREEN3/16	5X500BLK		420	0	0.034	0.13		
4 50634		SPLINE SCREEN1/8	(500'BLK		200	1	0.019	0.19		
5 51354		SPLINE SCREEN 9/6	4X500'G		200	0	0.023	0.19		
6 53993		SPLINE SCREEN 11/	64X500G		200	D	0.028	0.29		
7 30247		WIRE 12THHN SLD	RED 500'		150	D	0.106	0.45		
8 51051		SPLINE SCREEN3/16	5X500 GR		150	D	0.034	0.29		
9 41215		COMPRSN SLEEVE 1	L/4"BRS		123	3	0.09	0.29		
10 73449		ROPE POLY 1/4"X12	00' TAN		122	D	0.029	0.29		
11 11161		OPENER PAINT CAN	N		120	D	0.072	0.23		
12 73454		ROPE POLY 1/4"X12	00'YLW		120	D	0.029	0.29		
13 5364864		CABLE 3/32" 7X7 GA	ALV		103	5	0.04	0.49		
14 31666		WIRE 10THHN SLD	NHT 500'		100	D	0.167	0.47		
15 32423		PHONECORD LINE	JNF500'IV		100	D	0.069	0.49		
16 5096714		SPLINE SCREEN 5/3	2X500'G		100	D	0.024	0.29		
17 5096912		SPLINE SCREEN 7/3	2X250 B		100	D	0.048	0.29		
18 30932		TV 300 OHM BROW	N		99	Э	0.04	0.1		
19 73450		ROPE POLY 3/8"X60	0'TAN		99	9	0.068	0.49		
20 79071		RING KEY 7/8" "GIV	EAWAY		99	D	0.014	0.19		
21 70778		ROPE SB NYLON 3/3	16"X475'		95	2	0.067	0.29		
22 30242		WIRE 14THHN SLD	NHT 500'		95	D	0.071	0.21		
23 0483198		MLD356 VINE&LEA	F MOULDING2		90	4	0.85	2.59		
24 5364880		CABLE 1/8" 7X7 GAI	LV		90	D	0.054	0.79		
25 71491		ROPE SB NYLON 3/8	3"X500'		90	D	0.178	0.99		
26 41222		COMPRESSION NUT	T 1/4"BRS		88	9	0.26	0.69		
27 81824		CORD BUNGEE3/8"	X300'REEL		85	0	0.2	1.49		
28 70996		NETTING HEX1"20G	A24"X150		846.	5	0.149	0.49		
29 30276		WIRE DOORBELL 20	/3 500'		80	D	0.099	0.39		
30 31674		WIRE 10BARE CPR S	LD 800'		80	D	0.159	0.35		
01 IE0060	Sheet1		200/11224		00	n	0.001	0.40		
	SHEELI		_			_		2		

- All of the data instantly appears in a column and row format
- Add additional sorting options or formulas for custom reporting

That's It!



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Importing the data

FILE I	HOME INSI	ERT PAGE LAYOUT FORMULAS	Boo DATA REVIEW VIEW	k1 - Excel		
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4 50634		SPLINE SCREENS/ 10/300BLK	300	1 0.034	0.25	
5 51254		SPLINE SCREEN 9/64Y500'G	200	0 0.013	0.19	
6 52993		SPLINE SCREEN 11/64X500G	200	0 0.023	0.15	
7 30247		WIRE 12THEN SLD RED 500'	150	0 0.025	0.25	
8 51051		SPLINE SCREEN3/16X500 GR	150	0 0.100	0.29	
0 41215		COMPREN SLEEVE 1/4"BBS	130	3 0.09	0.29	
0 73449		ROPE POLY 1/4"X1200' TAN	123	0 0.029	0.29	
11 11161		OPENER PAINT CAN	120	0 0.023	0.23	
2 73454		ROPE POLY 1/4"X1200'YI W	120	0 0.072	0.29	
3 5364864		CABLE 3/32" 7X7 GALV	103	5 0.04	0.49	
4 31666		WIRE 10THHN SLD WHT 500'	100	0 0.167	0.47	
5 32423		PHONECORD LINE UNF500'IV	100	0 0.069	0.49	
6 5096714		SPLINE SCREEN 5/32X500'G	100	0 0.024	0.29	
7 5096912		SPLINE SCREEN 7/32X250 B	100	0 0.048	0.29	
8 30932		TV 300 OHM BROWN	99	9 0.04	0.1	
9 73450		ROPE POLY 3/8"X600'TAN	99	9 0.068	0.49	
0 79071		RING KEY 7/8" "GIVEAWAY	99	0 0.014	0.19	
1 70778		ROPE SB NYLON 3/16"X475'	95	2 0.067	0.29	
2 30242		WIRE 14THHN SLD WHT 500'	95	0 0.071	0.21	
3 0483198		MLD356 VINE&LEAF MOULDING2	90	4 0.85	2.59	
24 5364880		CABLE 1/8" 7X7 GALV	90	0 0.054	0.79	
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8 70996		NETTING HEX1"20GA24"X150	846.	5 0.149	0.49	
29 30276		WIRE DOORBELL 20/3 500'	80	0 0.099	0.39	
30 31674		WIRE 10BARE CPR SLD 800'	80	0 0.159	0.35	
1 50060		CHANNEL CLAZING 20010224	00	0 0.001	0.40	

- Step 1) Change headers to match Paladin Export tables
- **Step 2)** Save the file as a tab-delimited text file (*.txt)
 - Do not save over the text file when it prompts you to do so in order to retain the text file format
- Step 3) Validate your data!
- **Step 4)** Make a back up of the Paladin data on Terminal 1 *Bonus: Export Inventory*
- Step 5) Make sure no one is using the POS system



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Using Data Viewer

Paladin Point of Sale Edit Tasks Reports Help File Accounts Receivable 10 Data Validation nvoice/Quote P.O. Reports Backup Exit Download Mobile Services Remote Services . Updates Utilities Updates New Features Details on new and upcoming Paladin P ✓ Features ✓ Updates

Go to: Maintain – Data Viewer



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Importing Data

Paladin PC	DS Da	ata Vie	wer										_ 🗆 ×
bile Utils Pun	chase	Orders	Rewards	Sales	Hist					_			
H Processing	Ach B	Review	Customer	A/R (Customers	Discounts	GL Summary	Instant Savings	Inventory	Invoices	Invoice Import	Log	Margin Master
splay/Edit E	xport	Import	Maintain	Reset	Warning	gs							
Load File													

- Select the Inventory tab
- Select Import
- Select Load File
- Choose the file to import



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Importing Data

Paladin POS Data Vi	ewer										<u> </u>
obile Utils Purchase Orders	Rewards	Sales H	list								
CH Processing Ach Review	Customer	A/R C	ustomers	Discounts	GL Summary	Instant Savings	Inventory	Invoices	Invoice Import	Log	Margin Master
Display/Edit Export Import	Maintain	Reset	Warnings	5							
Load File											
Import Options											
Inventory Type											
Active Inventory V											
Add New Items											
v opdate Existing items											
Import											
()											

- Select 'Active Inventory'
- Check 'Update Existing Items'
- Press 'Import'
- Validate your DATA!





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Intermediate

Advanced

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