AccessDBRescue
AN RKPC SERVICE

FULL REPORT

Analysis of your Access application

Example Ltd

FOR	Example Ltd
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DATE	18 November 2026
FILES ANALYSED	Northwind_Modified.jet3.mdb

SUMMARY

Summary

We analysed 1 file(s). The application is medium-sized. Below you find its size, the points of attention per part and a proposed approach.



Medium
A full application with real business logic.

Key figures

9 Tables	**3,210** Records	**23** Queries	**21** Forms
13 Reports	**8** Macros	**595** Lines of VBA	

Main points of attention

NORTHWIND_MODIFIED.JET3.MDB
Access 97 format

NORTHWIND_MODIFIED.JET3.MDB
1 Windows API call(s) not ready for 64-bit

Contents

1 Northwind_Modified.jet3.mdb
2 Possibly unused objects
3 Proposed approach

FILE 1

Northwind_Modified.jet3.mdb

FORMAT	SIZE	ROLE
Access 97	17.3 MB	Application and data in one file
CREATED	**LAST DESIGN CHANGE**	
September 1995	November 2022	

9	3,210	23	21	13	595
Tables	Records	Queries	Forms	Reports	Lines of VBA

Points of attention

IMPORTANT

Access 97 format

Recent versions of Access (2013 and later) can no longer open this file. Any Windows or Office update can make the application unusable.

IMPORTANT

1 Windows API call(s) not ready for 64-bit

This code does not start in 64-bit Office (the default since Office 2019/365) without changes.

ATTENTION

Controls other programs (ADO)

The application automates 1 other programs, such as Excel, Word or Outlook. These links need extra attention.

ATTENTION

2 queries refer to forms

These queries read values directly from open forms. That logic has to be rewritten in a migration.

ATTENTION

Works with files or other programs (1x)

The code reads or writes files, starts programs or sends keystrokes. A web application needs a different approach for that.

ATTENTION

3 OLE object field(s)

Embedded documents or images make the database large and are hard to migrate.

ATTENTION

8 macros

Macros contain logic that has to be converted in a modernisation.

GOOD TO KNOW

1 action queries

Queries that change, add or delete data: this is often where important business logic lives.

GOOD TO KNOW

1 uses of DLookup/DCount and the like

These functions are slow with larger amounts of data or over the network.

GOOD TO KNOW

8 lookup field(s) in tables

Drop-down lists at table level; in a new database these become real relationships.

GOOD TO KNOW

8 validation rule(s)

Business rules stored in the tables themselves. We carry them over.

GOOD TO KNOW

22 names with spaces, special characters or reserved words

No problem in Access, but it is when moving to another database or programming language.

GOOD TO KNOW

12 object(s) possibly no longer in use

We found no reference to these tables or queries anywhere. Cleaning up makes a modernisation smaller and cheaper.

GOOD TO KNOW

66 object(s) unchanged for more than 5 years

Forms, reports or queries that have not been touched for a long time: possibly still needed, possibly not. We review that together.

Data model (9 tables)

Table	Records	Fields	Primary key	Indexes	Special fields
Order Details	2,155	5	yes	5	
Orders	830	14	yes	10	
Customers	91	11	yes	6	
Products	77	10	yes	7	
Suppliers	29	12	yes	4	
Employees	9	17	yes	4	1× OLE
Categories	8	4	yes	3	1× OLE
TestAllFieldTypes	8	17	yes	1	1× OLE
Shippers	3	3	yes	2	

Queries (23)

Query	Kind
Alphabetical List of Products	select
Catalog	select
Category Sales for 1995	select
Current Product List	select
Customers and Suppliers by City	union
Employee Sales by Country	select
Invoices	select
Invoices Filter	select
Order Details Extended	select
Order Subtotals	select
Product Sales for 1995	select
Products by Category	select
Quarterly Orders	select
Quarterly Orders by Product	crosstab
Sales by Year	select
Sales Totals by Amount	select
Summary of Sales by Year	select
Ten Most Expensive Products	select
Orders Qry	select
Products Above Average Price	select
Sales by Category	select
Summary of Sales by Quarter	select
CreateTestAllFieldTypes	ddl

Forms (21)

Categories, Customer Labels Dialog, Customer Orders, Customer Orders Subform1, Customer Orders Subform2, Customer Phone List, Customers, Employees, Employees (page break), Main Switchboard, Orders, Orders Subform, Product List, Products, Quarterly Orders, Quarterly Orders Subform, Sales Analysis, Sales by Year Dialog, Sales Reports Dialog, Startup, Suppliers

Reports (13)

Alphabetical List of Products, Catalog, Customer Labels, Employee Sales by Country, Invoice, Products by Category, Sales by Category, Sales by Category Subreport, Sales by Year, Sales by Year Subreport, Sales Totals by Amount, Summary of Sales by Quarter, Summary of Sales by Year

Macros (8)

Name	Actions	Refers to
CreateTable	–	
Customer Labels Dialog	–	
Customer Phone List	–	
Customers	–	
Employees (page break)	–	
Sales Totals by Amount	–	
Sample Autokeys	–	
Suppliers	–	

VBA code (595 lines)

- **Windows API calls:** 1 (1 not 64-bit ready)
- **Other programs:** ADODB.*
- **Most used DoCmd actions:** close (10), openreport (5), openform (5), quit (1), selectobject (1), outputto (1), movesize (1)

Module	Kind	Lines
Form_Suppliers	form	83
CreateNewTables	standard	72
Report_Sales by Year	report	59
Form_Orders Subform	form	59
Startup	standard	59
Form_Sales Reports Dialog	form	47
Form_Orders	form	37
Form_Main Switchboard	form	32
Northwind Help Function	standard	29
Form_Sales by Year Dialog	form	26
Report_Employee Sales by Country	report	23
Form_Products	form	23
Form_Customer Orders Subform1	form	18
Form_Sales Analysis	form	12
Utility Functions	standard	11
Form_Employees	form	5

Fields per table

Order Details

Field	Type	Required
OrderID	long	
ProductID	long	
UnitPrice	currency	
Quantity	integer	
Discount	float	

Orders

Field	Type	Required
OrderID	long (auto)	
CustomerID	text (auto)	
EmployeeID	long	
OrderDate	datetime (auto)	
RequiredDate	datetime (auto)	
ShippedDate	datetime (auto)	
ShipVia	long	
Freight	currency (auto)	
ShipName	text (auto)	
ShipAddress	text (auto)	
ShipCity	text (auto)	
ShipRegion	text (auto)	
ShipPostalCode	text (auto)	
ShipCountry	text (auto)	

Customers

Field	Type	Required
CustomerID	text	
CompanyName	text	
ContactName	text (auto)	
ContactTitle	text	
Address	text	
City	text	
Region	text	
PostalCode	text	
Country	text (auto)	
Phone	text (auto)	
Fax	text (auto)	

Products

Field	Type	Required
ProductID	long (auto)	
ProductName	text	
SupplierID	long	
CategoryID	long	
QuantityPerUnit	text (auto)	
UnitPrice	currency	
UnitsInStock	integer (auto)	
UnitsOnOrder	integer	
ReorderLevel	integer (auto)	
Discontinued	boolean	

Suppliers

Field	Type	Required
SupplierID	long (auto)	
CompanyName	text	
ContactName	text	
ContactTitle	text (auto)	
Address	text	
City	text	
Region	text (auto)	
PostalCode	text	
Country	text	
Phone	text	
Fax	text (auto)	
HomePage	memo	

Employees

Field	Type	Required
EmployeeID	long (auto)	
LastName	text	
FirstName	text	
Title	text	
TitleOfCourtesy	text (auto)	
BirthDate	datetime (auto)	
HireDate	datetime	
Address	text	
City	text	
Region	text	
PostalCode	text	
Country	text	
HomePhone	text	
Extension	text	
Photo	ole	
Notes	memo	
ReportsTo	long	

Categories

Field	Type	Required
CategoryID	long (auto)	
CategoryName	text (auto)	
Description	memo	
Picture	ole	

TestAllFieldTypes

Field	Type	Required
Id	long (auto)	
BoolColumn	boolean	
ByteColumn	byte	
IntColumn	long	
LongIntColumn	long	
MoneyColumn	currency	
FloatColumn	float	
DoubleColumn	double	
DateTimeColumn	datetime	
VarbinaryColumn	binary	
BinaryColumn	binary	
OLEColumn	ole	
VarCharColumn	text	
CharColumn	text	
MemoColumn	memo	
RepIdColumn	repid	
Comment	text	

Shippers

Field	Type	Required
ShipperID	long (auto)	
CompanyName	text	
Phone	text	

SQL

SQL as stored in the database (via mdbtools).

Alphabetical List of Products

```
SELECT  FROM
```

Catalog

```
SELECT DISTINCTROW Categories.CategoryName,Categories.Description,Categories.Picture,Products.ProductI
D,Products.ProductName,Products.QuantityPerUnit,Products.UnitPrice FROM [Categories],[Products] WHERE
(((Products.Discontinued)=No))
```

Category Sales for 1995

```
SELECT DISTINCTROW [Product Sales for 1995].CategoryName,Sum([Product Sales for 1995].ProductSales) FR
OM [Product Sales for 1995]
```

Current Product List

```
SELECT [Product List].ProductID,[Product List].ProductName FROM [Products] WHERE ((([Product List].Dis
continued)=No)) ORDER BY [Product List].ProductName
```

Customers and Suppliers by City

```
SELECT DISTINCT  FROM [],[] ORDER BY City
```

Employee Sales by Country

```
SELECT DISTINCTROW Employees.Country,Employees.LastName,Employees.FirstName,Orders.ShippedDate,Orders.
OrderID,[Order Subtotals].Subtotal FROM [Employees],[Orders],[Order Subtotals] WHERE (((Orders.Shipped
Date) Between [Beginning Date] And [Ending Date]))
```

Invoices

```
SELECT DISTINCTROW Orders.ShipName,Orders.ShipAddress,Orders.ShipCity,Orders.ShipRegion,Orders.ShipPos
talCode,Orders.ShipCountry,Orders.CustomerID,Customers.CompanyName,Customers.Address,Customers.City,Cu
stomers.Region,Customers.PostalCode,Customers.Country,[FirstName] & " " & [LastName],Orders.OrderID,Or
ders.OrderDate,Orders.RequiredDate,Orders.ShippedDate,Shippers.CompanyName,[Order Details].ProductID,P
roducts.ProductName,[Order Details].UnitPrice,[Order Details].Quantity,[Order Details].Discount,CCur
([Order Details].[UnitPrice]*[Quantity]*(1-[Discount])/100)*100,Orders.Freight FROM [Orders],[Order De
tails],[Customers],[Employees],[Products],[Shippers]
```

Invoices Filter

```
SELECT DISTINCTROW Invoices.* FROM [Invoices] WHERE (((Invoices.OrderID)=[Forms]![Orders]![OrderID]))
```

Order Details Extended

```
SELECT DISTINCTROW [Order Details].OrderID,[Order Details].ProductID,Products.ProductName,[Order Detai
ls].UnitPrice,[Order Details].Quantity,[Order Details].Discount,CCur([Order Details].[UnitPrice]*[Quan
tity]*(1-[Discount])/100)*100 FROM [Order Details],[Products] ORDER BY [Order Details].OrderID
```

Order Subtotals

```
SELECT DISTINCTROW [Order Details].OrderID,Sum(CCur([UnitPrice]*[Quantity]*(1-[Discount])/100)*100) FR
OM [Order Details]
```

Product Sales for 1995

```
SELECT DISTINCTROW Categories.CategoryName,Products.ProductName,Sum(CCur([Order Details].[UnitPrice]*
[Quantity]*(1-[Discount])/100)*100) FROM [Categories],[Order Details],[Orders],[Products] WHERE (((Ord
ers.ShippedDate) Between #1/1/95# And #12/31/95#))
```

Products by Category

```
SELECT DISTINCTROW Categories.CategoryName,Products.ProductName,Products.QuantityPerUnit,Products.Unit
sInStock,Products.Discontinued FROM [Categories],[Products] WHERE (((Products.Discontinued)<>Yes)) ORD
ER BY Categories.CategoryName
```

Quarterly Orders

```
SELECT  FROM
```

Quarterly Orders by Product

```
SELECT DISTINCTROW Products.ProductName,Orders.CustomerID,"Qtr " & DatePart("q",[OrderDate],1,0) In
("Qtr 1","Qtr 2","Qtr 3","Qtr 4"),Year([OrderDate]),Sum(CCur([Order Details].[UnitPrice]*[Quantity]*(1
-[Discount])/100)*100) FROM [Orders],[Order Details],[Products] WHERE (((Orders.OrderDate) Between #1/
1/95# And #12/31/95#))
```

Sales by Year

```
SELECT  FROM
```

Sales Totals by Amount

```
SELECT  FROM
```

Summary of Sales by Year

```
SELECT DISTINCTROW Orders.ShippedDate,Orders.OrderID,[Order Subtotals].Subtotal FROM [Orders],[Order S
ubtotals] WHERE (((Orders.ShippedDate) Is Not Null)) ORDER BY Orders.ShippedDate
```

Ten Most Expensive Products

```
SELECT TOP 10 Products.ProductName,Products.UnitPrice FROM [Products] ORDER BY Products.UnitPrice DESC
ENDING
```

Orders Qry

```
SELECT DISTINCTROW Orders.OrderID,Orders.CustomerID,Orders.EmployeeID,Orders.OrderDate,Orders.Required
Date,Orders.ShippedDate,Orders.ShipVia,Orders.Freight,Orders.ShipName,Orders.ShipAddress,Orders.ShipCi
ty,Orders.ShipRegion,Orders.ShipPostalCode,Orders.ShipCountry,Customers.CompanyName,Customers.Address,
Customers.City,Customers.Region,Customers.PostalCode,Customers.Country FROM [Customers],[Orders]
```

Products Above Average Price

```
SELECT DISTINCTROW Products.ProductName,Products.UnitPrice FROM [Products] WHERE (((Products.UnitPric
e)>(SELECT AVG([UnitPrice]) From Products))) ORDER BY Products.UnitPrice DESCENDING
```

Sales by Category

```
SELECT  FROM
```

Summary of Sales by Quarter

```
SELECT  FROM
```

CreateTestAllFieldTypes

```
SELECT  FROM
```

POSSIBLY UNUSED OBJECTS

Possibly unused objects

No reference found in queries, relationships, forms, reports or code. Please check before removing them.

File	Tables	Queries
Northwind_Modified.jet3.mdb	0	12

PROPOSED APPROACH

Proposed approach

1

Analysis and design

Together with the users we establish what the application does today and what the new one must do. Based on this report we write the functional design and screen sketches.

2

Data model and migration

The tables move to a modern database (for example SQL Server or PostgreSQL), missing keys and relationships are added and all data is migrated and checked.

3

Screens and reports

Forms and reports are rebuilt as a web application, with their own contemporary look and feel.

4

Logic and integrations

VBA code, macros and queries containing business logic are rewritten; links with Excel, Outlook or files get a modern counterpart.

5

Testing, training and go-live

Users test with their real data. Then we switch over, with the old application still available as a fallback for a while.

This report is based on an automated analysis of the structure and the code. The content of records was not read. What screens look like and how users work with the application is not stored in the files; we cover that in the analysis phase.