

Access 2013

Über den Wolken?

YNTE JAN KUINDERSMA – BIRD AUTOMATION

AEK 15

Zusammenfassung

- Es sieht mal wieder ganz anders aus (Windows 8 Style = Tiles)
- Die Cloud ist überall
 - Einstellungen speichert man in Skydrive
 - Webdatenbanken sind erneuert(Sharepoint Apps)
- Für Desktop-Entwickler ist NICHTS dabei...

“There are ton of improvements besides to the front-end, too. We'll be diving into these in future posts. A few of the big items were mentioned in the post: (1) Access now takes care of lots of repetitive design tasks for you. It handles navigation between views, search, and the initial creation of list and datasheet views (2) table templates make it really easy to get started quickly.”

- Sie können aber Geld verdienen damit...
- <http://officepreview.microsoft.com/de-de/store/>

Fahrplan

- Theorie und Hintergründe
 - Desktop - Anwendungen
 - Webdatenbanken (Sharepoint Apps)
- Demo Webdatenbanken: Tabellen, Abfragen, Formulare, Makros
 - Berichte gibt es noch nicht & VBA nicht möglich
- Office 365 und Sharepoint Apps

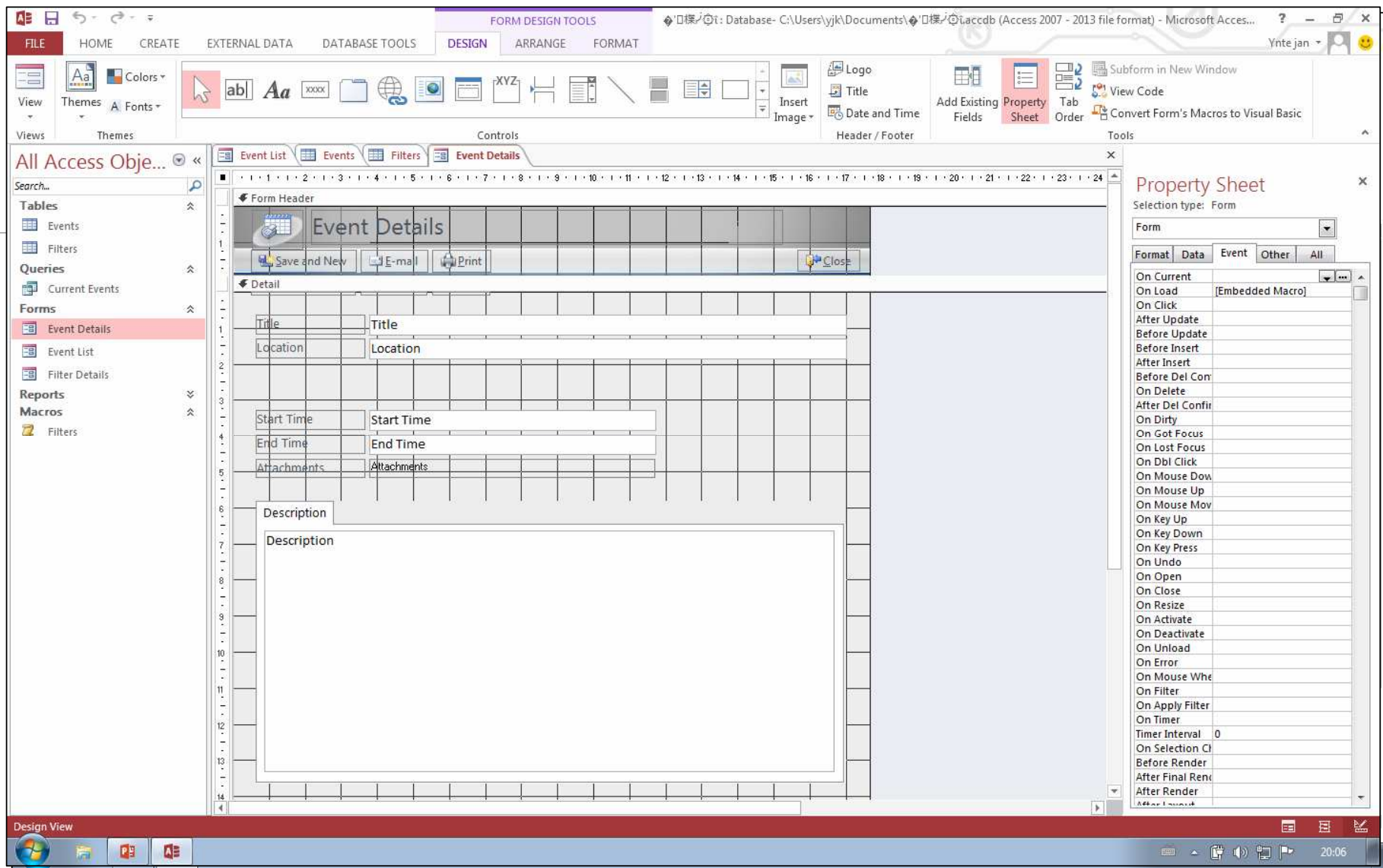
Introducing Access 2013

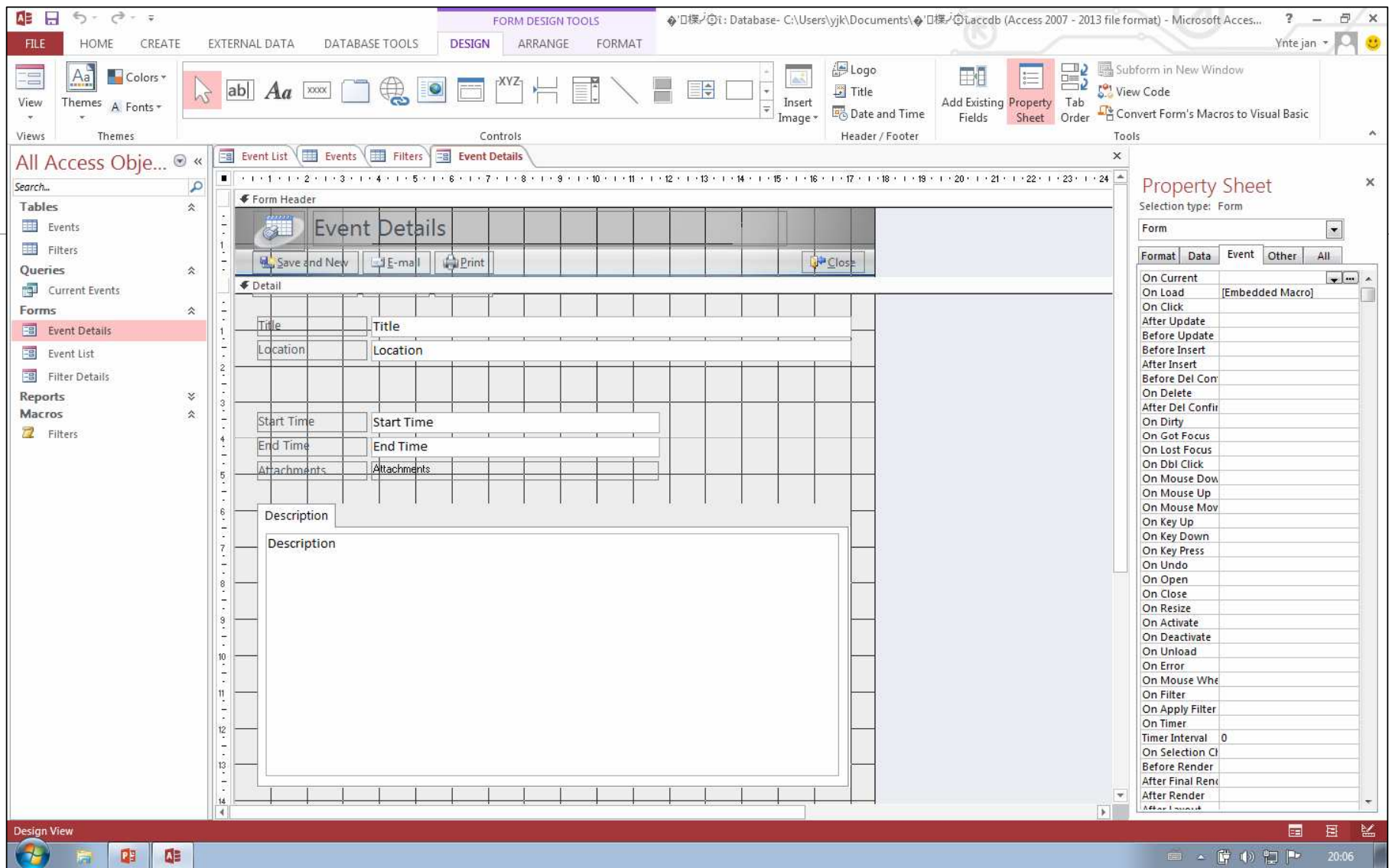
By Andrew Stegmaier on July 20

“The Access team is proud to introduce the Access 2013 public preview, which will make it easier than ever for everyday people to organize the data in their lives and businesses using Access apps.....”

“ ...

This release focuses on bringing Access databases to the web, making them more useful than ever. Your database can be hosted by Microsoft through Office 365 and securely accessed from any tablet or computer—even if the device doesn't have Access installed.”





Was hat sich nicht geändert?

“You are correct, though, that the 2GB limit for traditional desktop databases that store data using JET still exists in Access 2013”

Andrew Stegmaier

<http://blogs.office.com/b/microsoft-access/archive/2012/07/20/introducing-access-2013-.aspx>

Was fällt weg für Desktop - Entwickler?

- Office 15 nur ab Windows 7 (kein XP, kein Vista)
- Access 97 oder älter nicht mehr unterstützt
- Packaging (Packen und Signieren)
- Data Collection (Daten sammeln mit OL)
- Quellcodeverwaltung
- Access Pivot Charts und Pivot Tabellen
- dBASE-Unterstützung, keine Einbindung von dBASE-Datenbanken mehr
- **Access Data Projects (ADP)**
 - „Access 2013 Preview SQL-based databases will replace much of the benefit of ADPs.
 - There are three possible mitigations for ADPs:
 - Convert the ADP to an Access App solution.
 - Convert the ADP to a linked Access Desktop Database.
 - Convert the ADP to a full SQL-based solution.“

Microsoft und ADPs

@ anonymous - I am sorry our direction with ADPs does not fit your situation. The decision was made based on the very low usage of ADPs combined with the very high cost of migrating it to newer versions of SQL Server. The reality is we have seen ever decreasing usage of ADPs as more capable devs such as your self have migrated to HTML and Mobile platforms.

Todd Haugen - GPM MS Access

===

As an adp/sql server developer I am very dissapointed the new version does not allow any adp's anymore. I have, and will not have, any attention to develop web services neither using sharepoint as access adp's with sql server are very powerfull tools and sincerely hope the microsoft office team will re-consider this.

Anonymous

=====

<http://blogs.office.com/b/microsoft-access/archive/2012/07/20/introducing-access-2013-.aspx>

Was ist neu für Desktop - Entwickler?

- “Stabilizing and bug fixing throughout the product
- UI improvements and refresh (a. Runtime)
- Accessibility
- Improved UI for the Startup Experience
- Improved drill-through experience
- Name fixup
- On Start Macro“

Die neuen Kleider: Webdatenbanken

Webdatenbanken = Sharepoint Apps

Großer Unterschied zu Access 2010: Daten werden im SQL Server gespeichert

- Jede App bekommt eine eigene SQL Server Datenbank (Azure oder firmenintern)
- Azure: 1 Gigabyte, oder Aufpreis
- Über ODBC verknüpfen mit Desktopanwendung

What the App?

- “IT-Abteilung ist zufrieden(er)”
 - Backup, gesicherter Zugang, weniger Aufwand (kein SQL Server, keine Shortcuts). Access-Anwendungen sind wieder bei der IT-Abteilung untergebracht
- Webzugang wird wirklich leicht gemacht
 - Kein Access und SQL Server-Clientsoftware am Client, alles läuft über den Browser
- Die “klassische” Access-Anwendung geht dabei nicht verloren: “Best of both worlds”

Was steckt dahinter?

- Information worker müssen weg von Excel, deswegen auch Import von allerlei Formaten.
- Endbenutzer und Sachexperten sollen im Stande sein, sich selber eine Anwendung in die Wolken zu stellen.
 - „Datenbanken für Dummies?“

"It seems to me that what Microsoft is offering here is what it tried, but failed, to offer in Visual Studio Lightswitch: database programming for the non-specialist. "

<http://www.itwriting.com/blog/6147-access-web-app-at-last-a-simple-web-database-app-builder-from-microsoft.html>

Was kann man in der nächsten Version erwarten/erhoffen von WebDatenbanken?

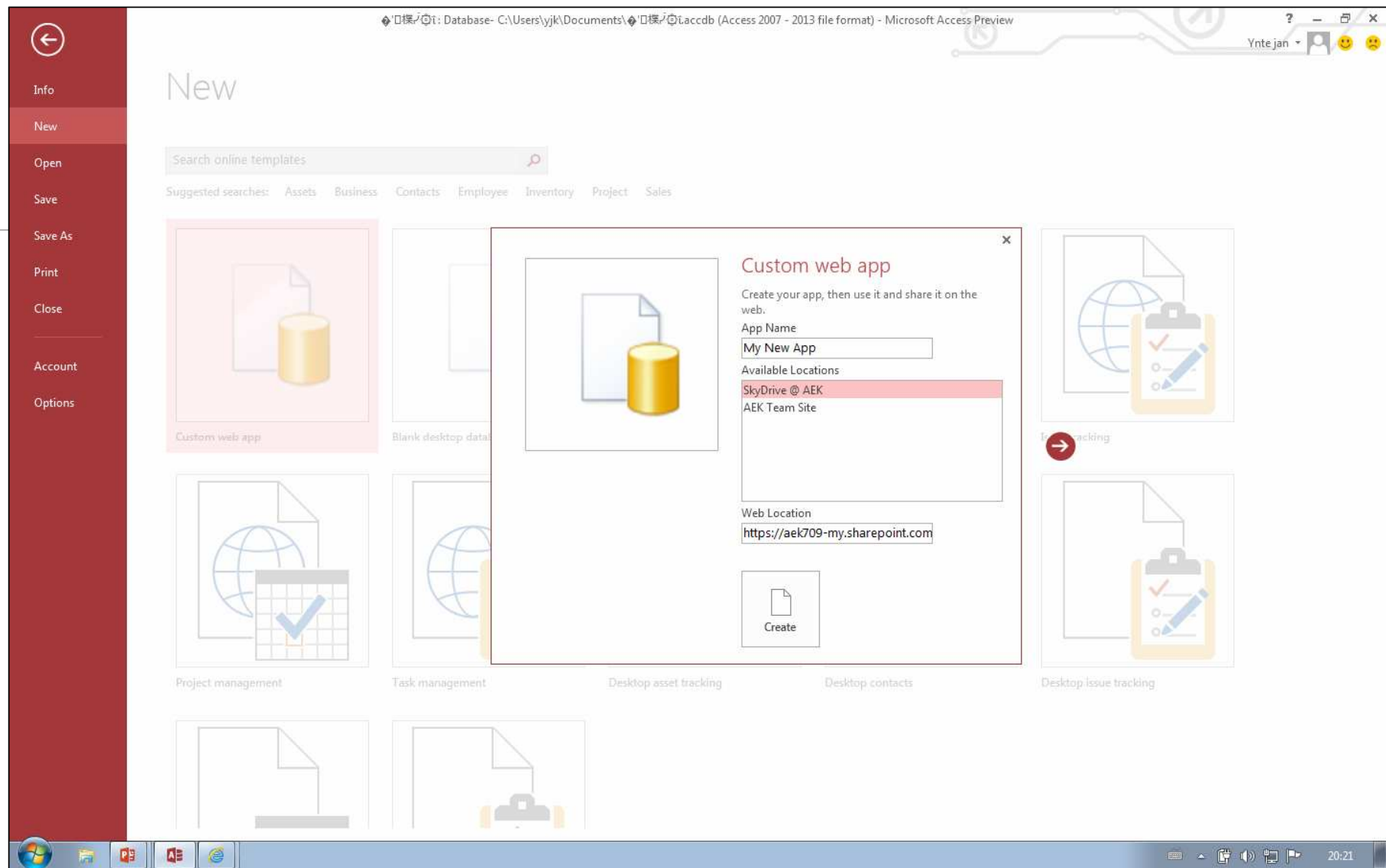
(Stand Oktober 2010)

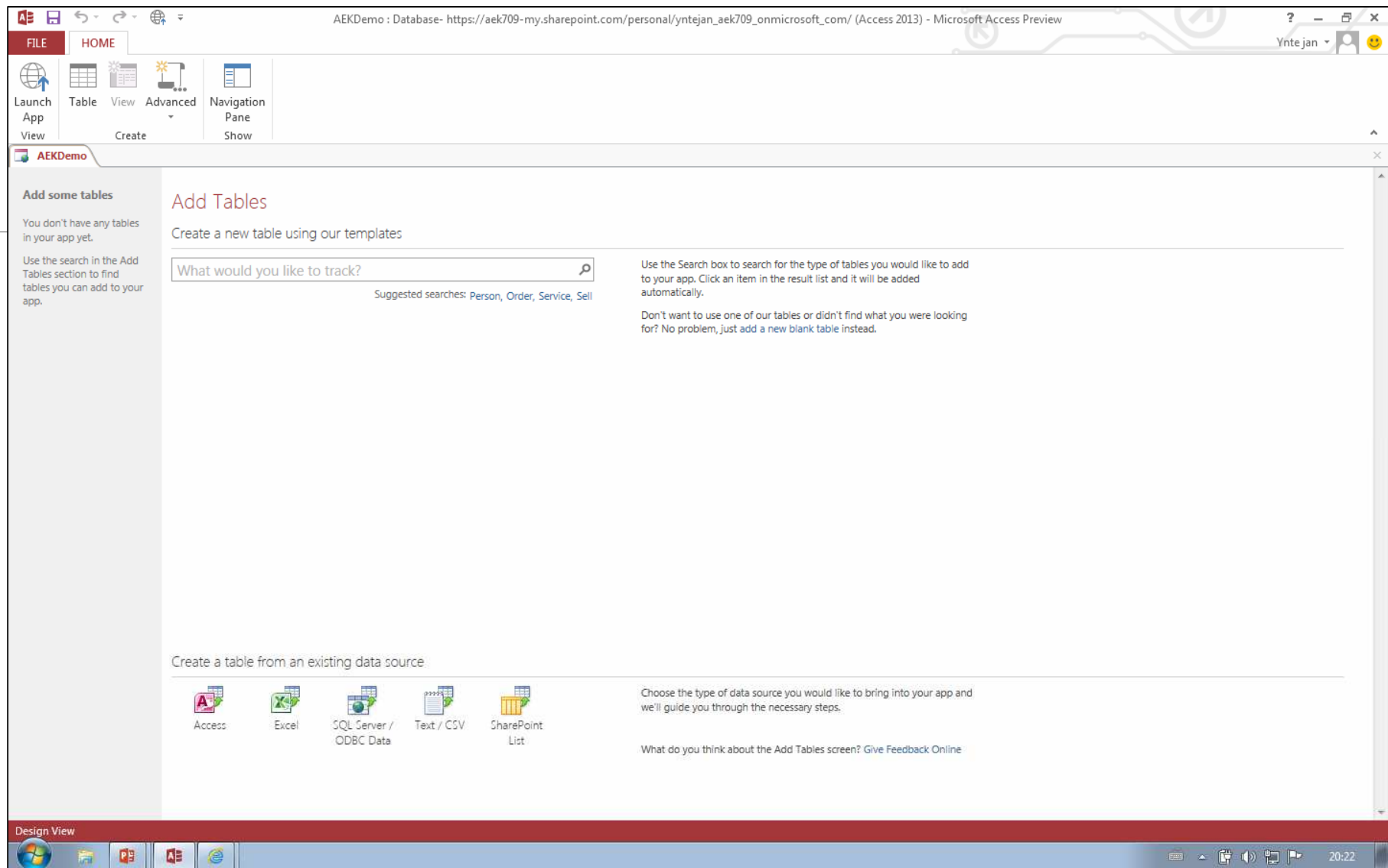
- Mehr Entwurfsansichten und Designmöglichkeiten
 - Ja
- Mehr Programmiermöglichkeiten, Ereignisse etc.
 - Nein außer Startup Makro
- Mehr Datensätze und bessere Performance? / SQL Server-Tabellen als direktes Backend?
 - Ja
- Insgesamt wird es Access-ähnlicher werden, was die Möglichkeiten betrifft
 - Nein
- Für MS ist Sharepoint ein sehr wichtiges Produkt, in das viel investiert wird, daher weiterer Ausbau der Access Services wahrscheinlich
- MS ist selber noch am Planen, Details daher schwer vorherzusagen

Neue Webdatenbank

- Basis
 - Lokale Vorlagen oder
 - Vorlagen von Office.com oder
 - Benutzerdefinierte Datenbank
 - Import
- Professionelles Layout (von der Stange)
- Speichern in SkyDrive oder TeamSite
 - Beide Sharepoint

„Search from a library of table templates to help you track the people, things, events, or tasks that you care about. Each table template comes with fields, views, relationships, and data-integrity rules, so you can take advantage of all the great features of Access 2013 with a single click. “





Tabellen

- Import von externen Datenquellen
 - Import: Access, Excel, SQL/ODBC, Text/CSV, Sharepoint-Liste
 - Verknüpfen: Sharepoint-Liste
- Vorlagen
 - Vier Kategorien (Person, Order, Service oder Sell)
 - Pro Kategorie weitere Auswahl
- Selber basteln oder Vorlage anpassen

Was passiert, wenn man eine Tabellenvorlage wählt?

- Tabelle wird erstellt
 - Tabellenschema
 - Beziehungen (Lookup)
- Views (Formulare) werden erstellt
 - List und Datasheet
- Navigationsmenü wird angelegt
- Standardisierte Formatierung
- So oft man nur will....

Felder und Lookups

The screenshot shows a CRM interface with a tabbed menu at the top: 'Business Contact Manager', 'Business Contacts List', 'Opportunities List', and 'Opportunities'. The 'Opportunities List' tab is active, displaying a table of fields.

Field Name	Data Type	Description (Optional)
ID	AutoNumber	
Sales stage	Lookup	
Total value	Currency	
Assigned to	Number	
Revenue forecast	Currency	
Probability	Number	
Close date	Date/Time	
Contact	Lookup	
Comments	Long Text	
Company	Lookup	
Competition	Short Text	
Created	Date/Time	
Created By	Short Text	
Delivery date	Date/Time	
Expiration date	Date/Time	
Linked to	Lookup	
Opportunity title	Short Text	
Opportunity type	Lookup	
Payment terms	Lookup	
Source	Lookup	
Total discount	Currency	

The 'Linked to' field is highlighted with a red border. To its right, a 'Lookup Wizard' dialog box is open. The dialog has a title bar 'Lookup Wizard' and contains the following text:

This wizard creates a lookup field, which displays a list of values from which you can select values?

☐ I want the lookup field to get the values from another table or query.

☒ I will type in the values that I want.

What values do you want to see in your lookup field?
Enter one value per line.

Company
Contact

Field Properties

Below the table, there is a 'General' tab with the following properties:

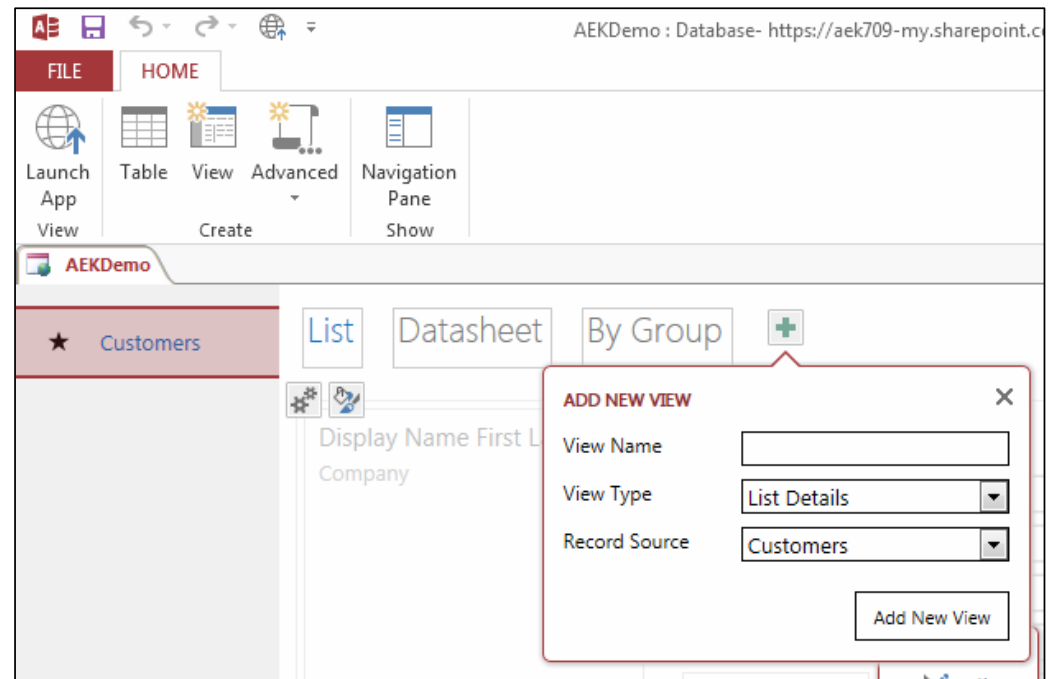
General	
Limit Length	Yes
Character Limit	255
Label Text	
Default Value	
Validation Rule	
Validation Text	
Required	No
Indexed	No

Arbeiten mit Abfragen

- Werden zu „Views“ oder Funktion am SQL-Server
- Keine SQL Ansicht
- Keine Aktionsabfragen
- Jetzt auch “Totals”
- Keine Unterabfragen
- Keine Union oder Kreuztabellen
- **Offene Frage: Kann man sie mit Management Studio bearbeiten?**

Eine eigene “View” (Formular)

- View Type
 - List, Summary, Details, Blank
- Record Source Tabelle oder Abfrage
- Nur Makros, Kein VBA
- Kein Active-X
- Keine bedingte Formatierung
- Weniger Ereignisse
- 12 Controls
- Nur bedingt formatierbar



Standardisiertes Layout

Autocomplete Control

Company

Contoso

Microsoft

<Add a new item>

Datasheet

List Datasheet

+

⊗

	First Name	Last Name	Email Address	Company
	Andrew	Stegmaier	ansteg@microsoft.com	Microsoft
	Ryan	McMinn	rmcminn@microsoft.com	Microsoft
	Gary	Devendorff	garydev@microsoft.com	Microsoft
	John	Doe	jdoo@contoso.com	Contoso
	Mike	Smith	msmith@northwind.com	Northwind Trade

Drill-Through Popups

Company Details

+

⊗

✓

⌕

×

Company Name Microsoft

City Redmond

Contacts

First Name	Last Name	Email Address
Andrew	Stegmaier	ansteg@microsoft.com
Gary	Devendorff	garydev@microsoft.com
Ryan	McMinn	rmcminn@microsoft.com

[Add Contacts](#)

Summary View

List **Contacts By Company**

Filter the list...

	First Name	Last Name
Northwind Traders (1)	Andrew	Stegmaier
Microsoft (3)	Gary	Devendorff
	Ryan	McMinn
Contoso (1)		

Related Items Control

+

⊗

✎

⌕

×

Company Name Microsoft

City Redmond

Contacts

First Name	Last Name	Email Address
Andrew	Stegmaier	ansteg@microsoft.com
Gary	Devendorff	garydev@microsoft.com
Ryan	McMinn	rmcminn@microsoft.com

[Add Contacts](#)

Action Bar

+

⊗

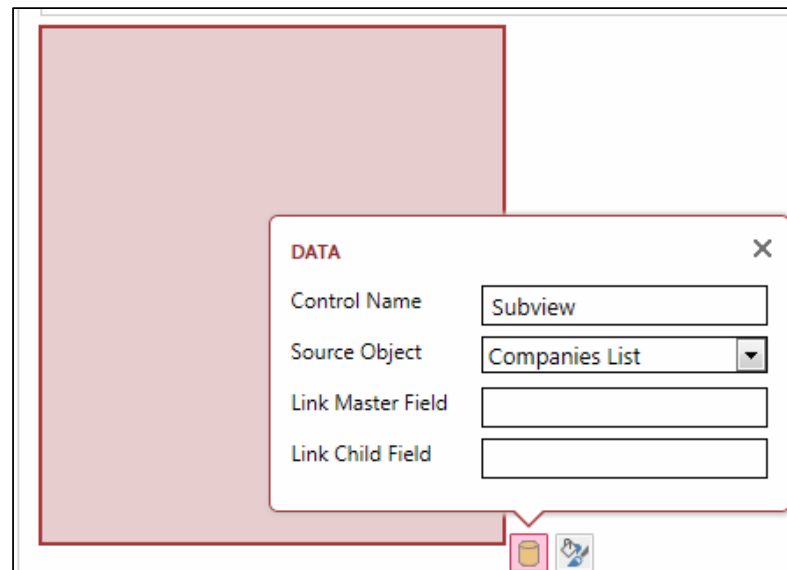
✎

⌕

×

Neue Controls: Subview

- Für Haupt-Unterformulare wie in Access mit Master-Child Field



Neue Controls: Autocomplete Control

- Dropdownlist, aber dann mit
 - Suchmöglichkeit
 - Neue Datensätze anfügen

The 'DATA' configuration window for an Autocomplete control. It contains the following fields:

Property	Value
Control Name	AutoComplete1
Control Source	Company
Default Value	
Row Source	Companies
Bound Field	ID
Primary Display Field	Company
Secondary Display Field	State
Popup view	Companies List

At the bottom, there is a preview of the control showing the text 'Company' and three icons: a folder, a magnifying glass, and a lightning bolt.

A screenshot of the Autocomplete control in a web application. It shows a search bar with the letter 'a' entered. Below the search bar, the text 'Eliminator 1' is displayed. At the bottom of the control, there is a link that says '<Add a new item>'.

Neue Controls: Related Items Control

- Eine Kombination von Haupt-Unterformular und Tabulator

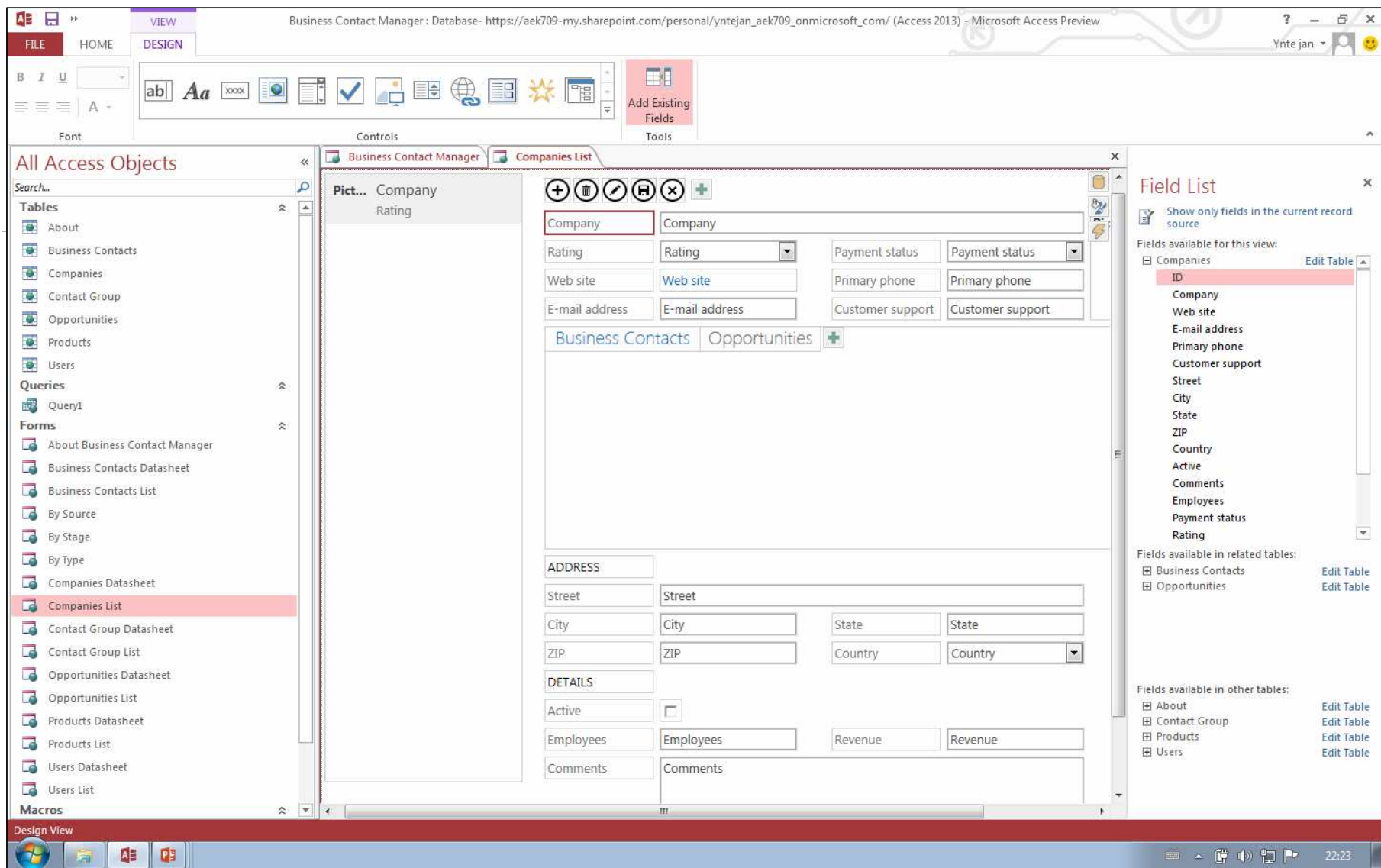
The screenshot displays a software interface with a tabbed window titled 'Manager'. The active tab is 'Business Contacts Datasheet', with other tabs being 'Companies List' and 'Test'. Below the tabs is a toolbar with icons for adding, deleting, editing, saving, and other actions. The main area contains two input fields labeled 'ID' and 'Company'. Below these is a section with two tabs: 'Kontakte' (selected) and 'Chancen'. A red rectangular box highlights the 'Kontakte' tab and the area below it. Overlaid on this is a 'DATA' configuration dialog box. The dialog has a title bar with a close button (X). It contains the following fields:

- Data Source: Business Contacts (dropdown)
- Related Field: Company (dropdown)
- First Field: First name (dropdown)
- First Caption: (text input)
- Second Field: Full Name (dropdown)
- Second Caption: (text input)
- Third Field: [No data source] (dropdown)
- Fourth Field: [No data source] (dropdown)
- Popup view: (dropdown)
- Sort Field: [No data source] (dropdown)

Neue Controls: Action Bar

- Meist benützte Aktionen
- Eigene Makros hinzufügen...





Automatisches Navigationsformular

- Basis-Layout nicht änderbar (Formular gar nicht vorhanden)
- Auf Sharepoint ist eine App eigentlich nur eine Seite: Default.aspx
 - Formatierung durch CSS
 - SharePoint Designer



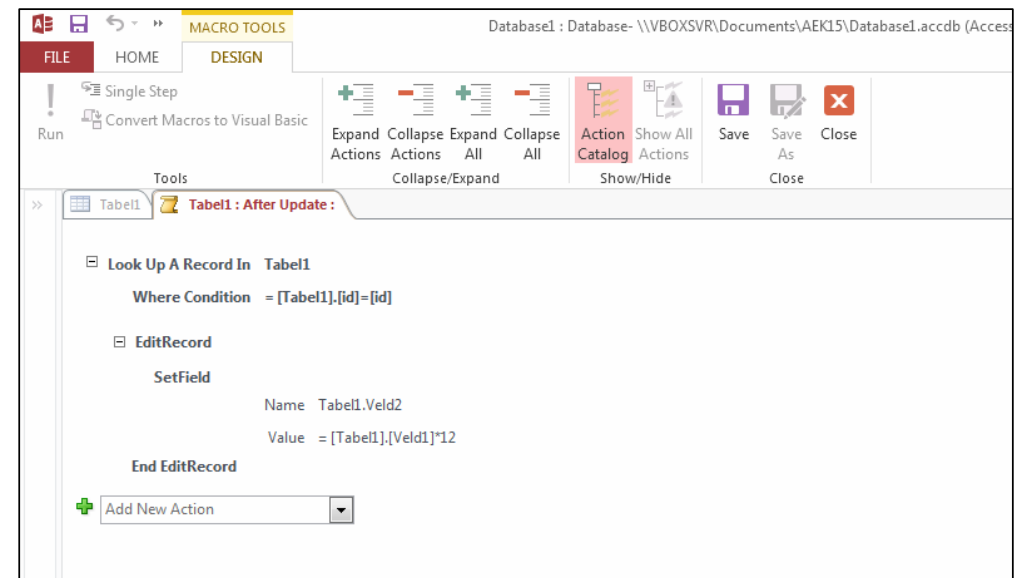
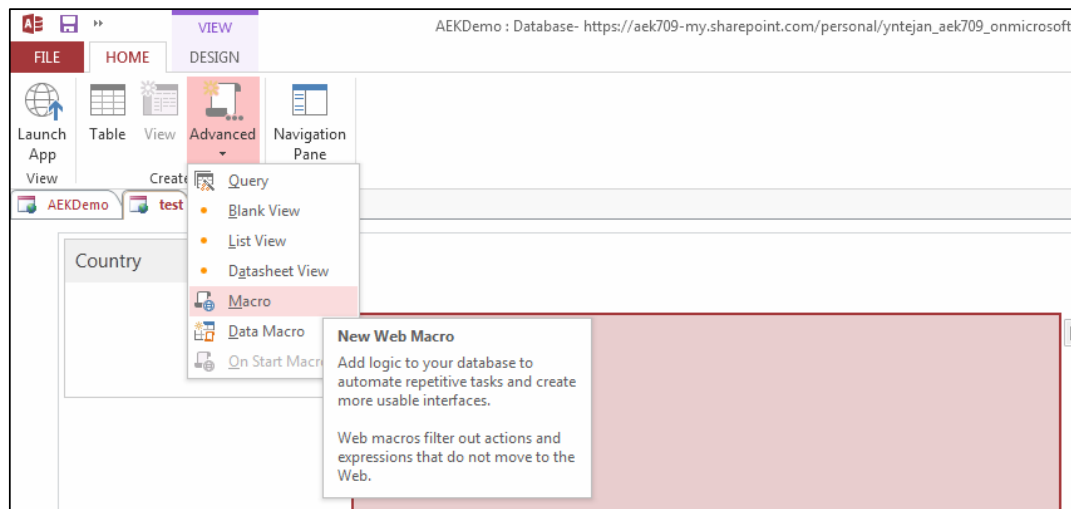
```
Bestand  Bewerken  Opmaak
1 <html lang="en-us" dir="ltr">
2
3 <head><meta name="GENERATOR" content="Microsoft SharePoint" /><meta http-equiv="X-UA-Compatible" content="IE=Edge" /><meta http-equiv="Content-
  Type" content="text/html; charset=utf-8" /><meta http-equiv="Expires" content="0" /><title>
4   Business Contact Manager
5 </title>
6   <script type="text/javascript">
7     var _UI_VERSION = 15;
8     var _fv4UI = false;
9   </script>
10
11   <link rel="stylesheet" type="text/css" href="/_layouts/15/1033/styles/Themable/accessservicesthemed.css?rev=4jmqNYGe8athP%2BvU9kT%2BEg%3D%3D"/>
12 <script type="text/javascript" src="https://cdn.sharepointonline.com/2776/_layouts/15/init.js?rev=msptCBHw90mLJ2YXhvPe5Q%3D%3D"></script>
13 <script type="text/javascript" src="https://cdn.sharepointonline.com/2776/_layouts/15/menu.js?rev=%2F5hczz4B7%2B%2B0Ea4RJFP5YQ%3D%3D"></script>
14 <script type="text/javascript" src="https://cdn.sharepointonline.com/2776/_layouts/15/sp.ui.controls.js?rev=Ukkh9y9YBHdZJ7t5YSjrlw%3D%3D"></script>
15 <script type="text/javascript" src="/ScriptResource.axd?d=sFXIQ1C9c6GxI13-37xAHth45JkR9z0eXlbgCaJYHCRMazv9u4CzA8mYm1xfTdT4-s-
  lmJWZdVkyYaAv1UEkH4RVKOBjZ93bCXl60XzeECMNri4rY6xdTT_zilPJ5kCZSzh8yp5q7uZZ74UMT1IvxxgBBadfcNvRjfr6o1TOY_4hpHLWhos1AgC08ee3Sk0&amp;t=4e6ba05">
  </script>
```

Programmierung? Makros!

- Kein VBA möglich in Webdatenbanken
- Makros
 - Benutzeroberflächen-Makros
 - Daten-Makros

“Access 2013 web databases have both UI Macros (which get translated into JavaScript on browsers) and Data Macros (which get translated into T-SQL in the server). These two technologies allow you to do many of the things that once required VBA.”

Makro



Makro - Möglichkeiten

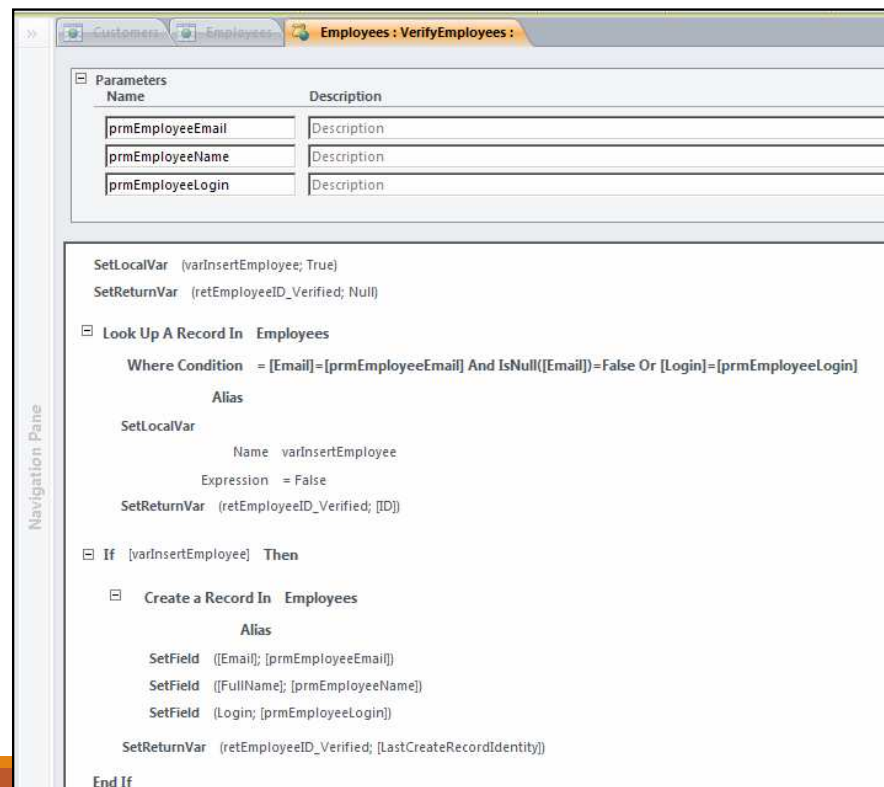
- Datenverarbeitung
 - Create, Read, Update, Delete
- Schleifen, IF THEN
- Funktionen
 - UserDisplayName, IsCurrentUserInGroup, isinsert, isnull, updated
- Variablen
 - Lokale, Return, Temp
- Parameter
- Fehlerbehandlung und Logging
- Intellisense

Makros: Daten I

- Funktionieren wie Trigger am SQL Server
- Ereignisse: BeforeUpdate, AfterInsert usw.
- Benannte Makros (Named Macros)
 - Kann man als Entwickler auch selbst abrufen

Makros: Daten II

Beispiel: Employees.VerifyEmployees

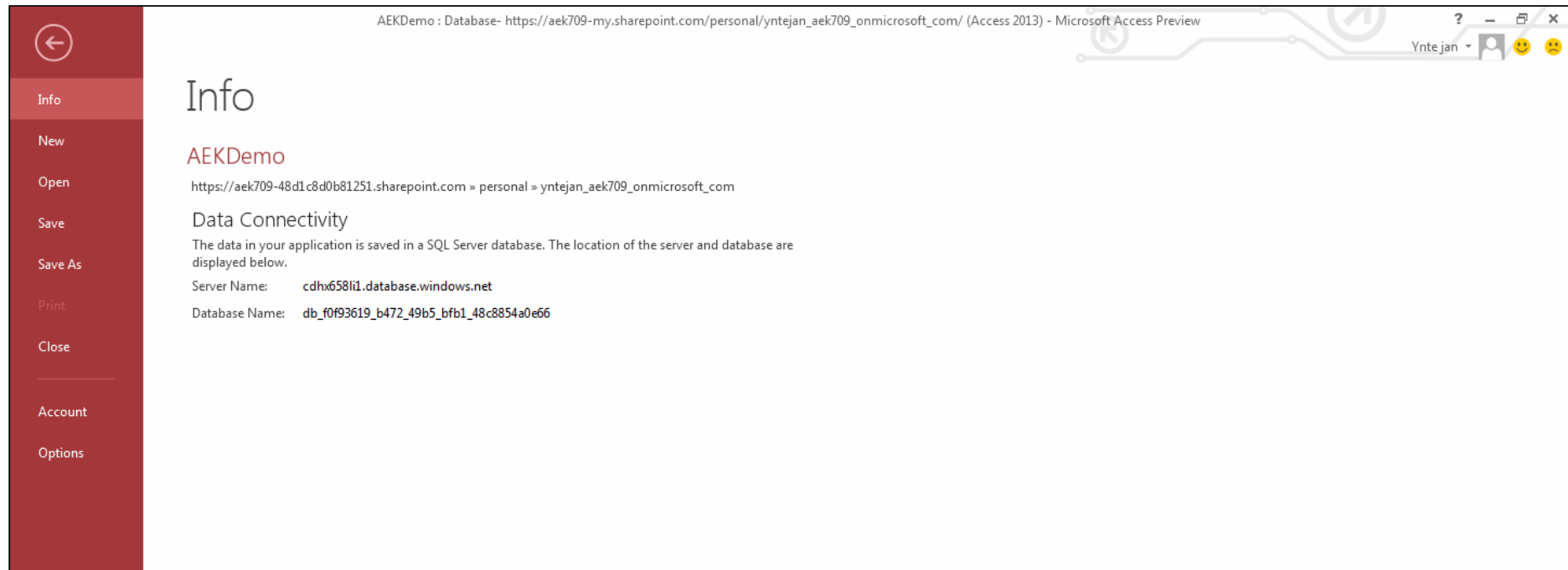


Webberichte?

- (Noch) nicht vorhanden
 - Trick: Extra Tabelle mit Totals ;-)
- Berichte nur am Desktop



Es ist tatsächlich SQL SERVER! (Preview)

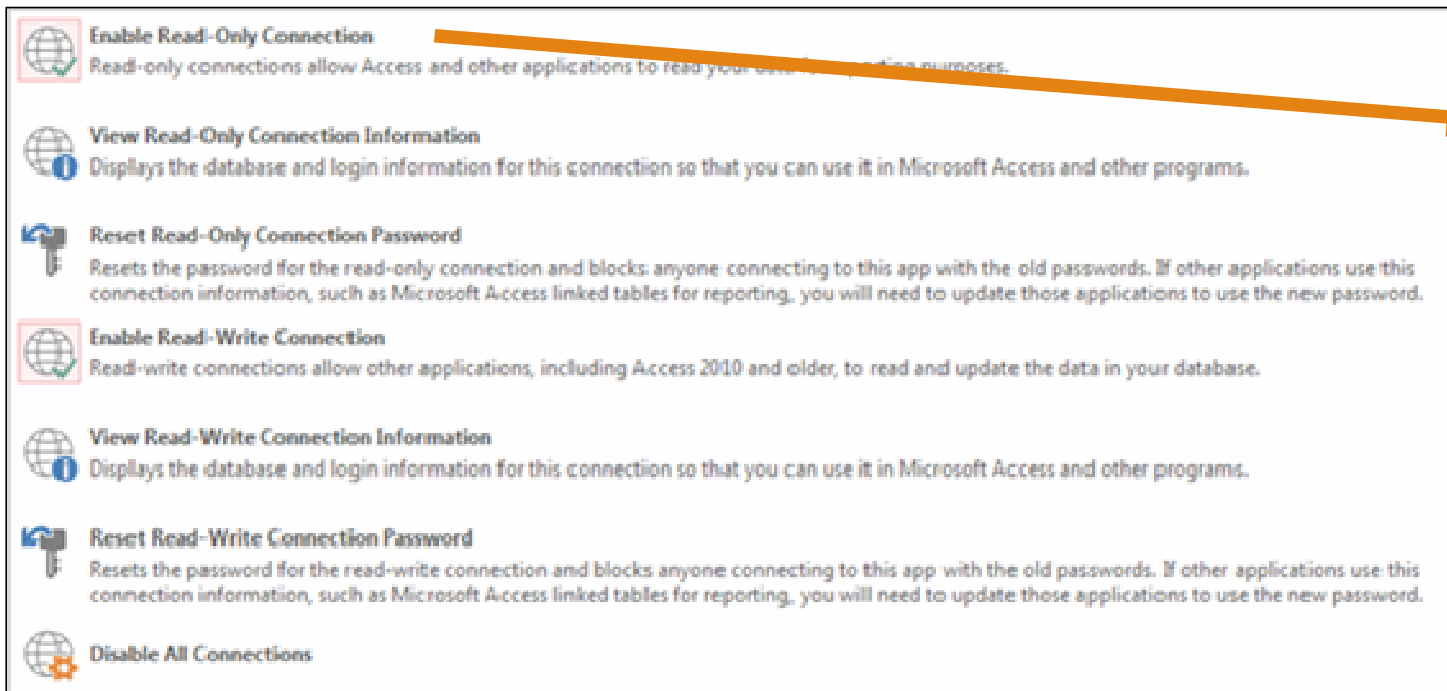


Verknüpfen mit Access – I (*nicht in der Preview*)



Verknüpfen mit Access – II

(nicht in der Preview)



Enable Read-Only Connection
Read-only connections allow Access and other applications to read your data for reporting purposes.

View Read-Only Connection Information
Displays the database and login information for this connection so that you can use it in Microsoft Access and other programs.

Reset Read-Only Connection Password
Resets the password for the read-only connection and blocks anyone connecting to this app with the old passwords. If other applications use this connection information, such as Microsoft Access linked tables for reporting, you will need to update those applications to use the new password.

Enable Read-Write Connection
Read-write connections allow other applications, including Access 2010 and older, to read and update the data in your database.

View Read-Write Connection Information
Displays the database and login information for this connection so that you can use it in Microsoft Access and other programs.

Reset Read-Write Connection Password
Resets the password for the read-write connection and blocks anyone connecting to this app with the old passwords. If other applications use this connection information, such as Microsoft Access linked tables for reporting, you will need to update those applications to use the new password.

Disable All Connections

SQL Server Connection Information ? X

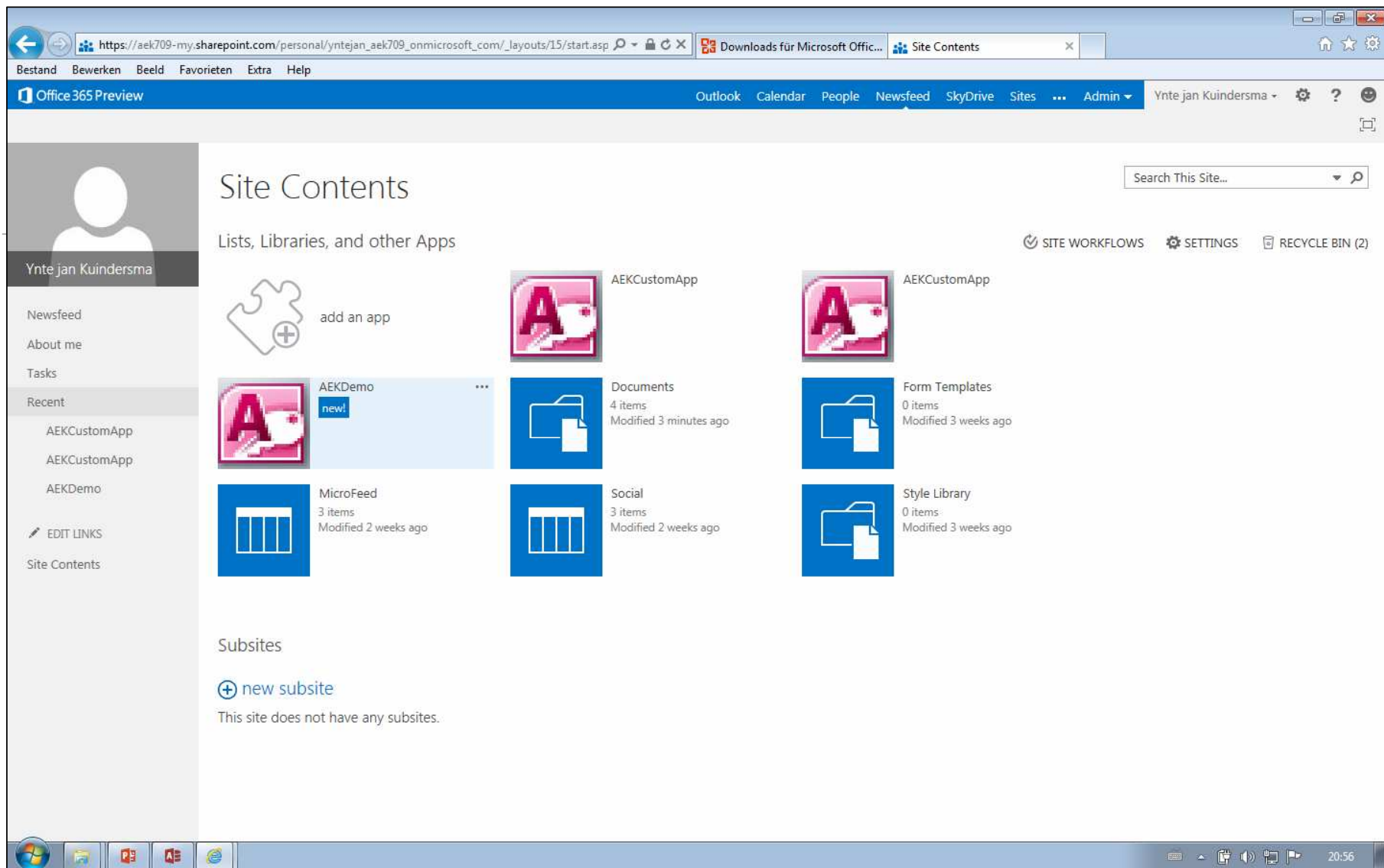
Server	kevbellouip5
Database	db_ead2044f_2546_4c44_9728_67c5fa1f8ab7
UserName	db_ead2044f_2546_4c44_9728_67c5fa1f8ab7_ExternalRea
Password	ILdBHhDS#c8y.G

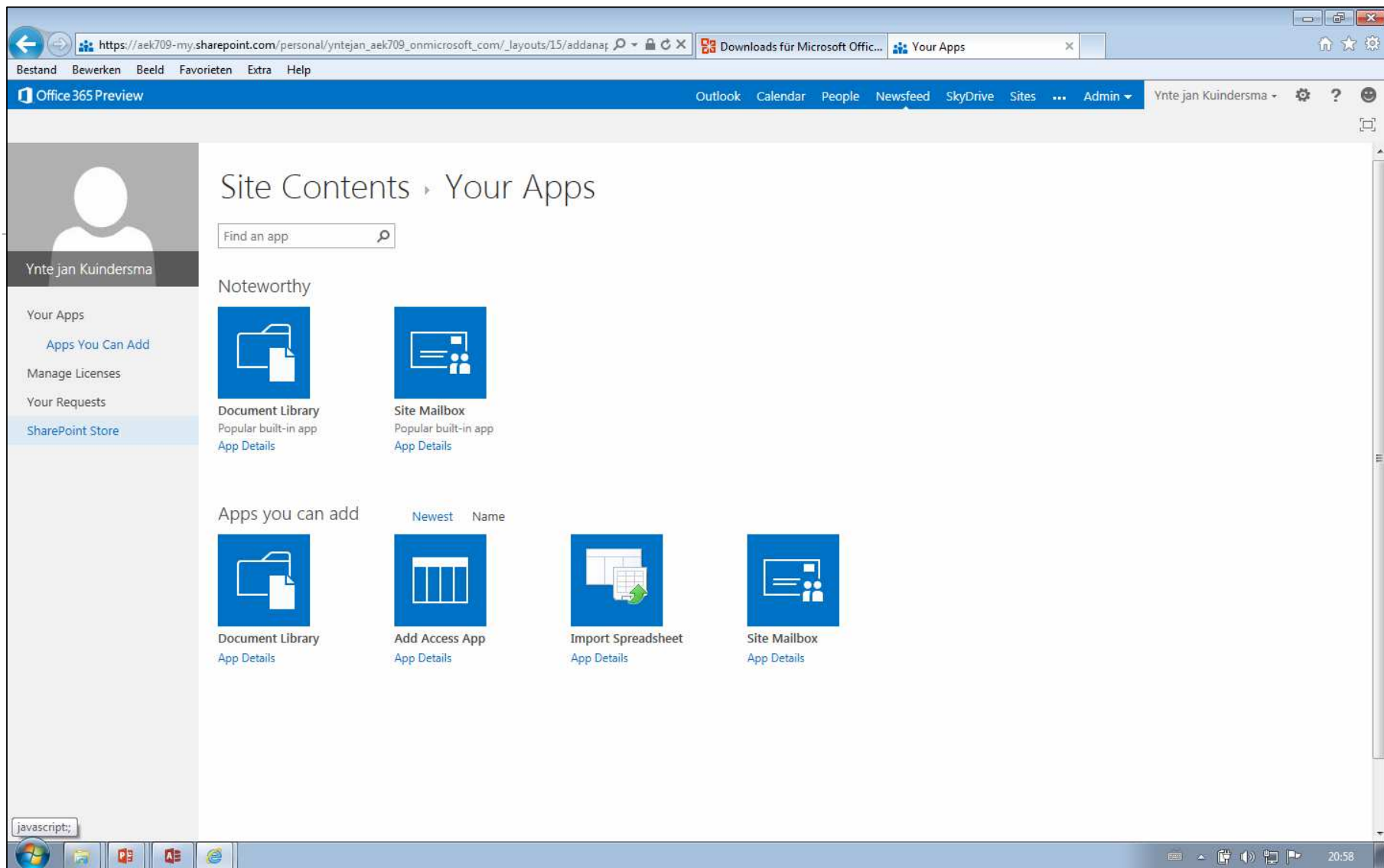
Close

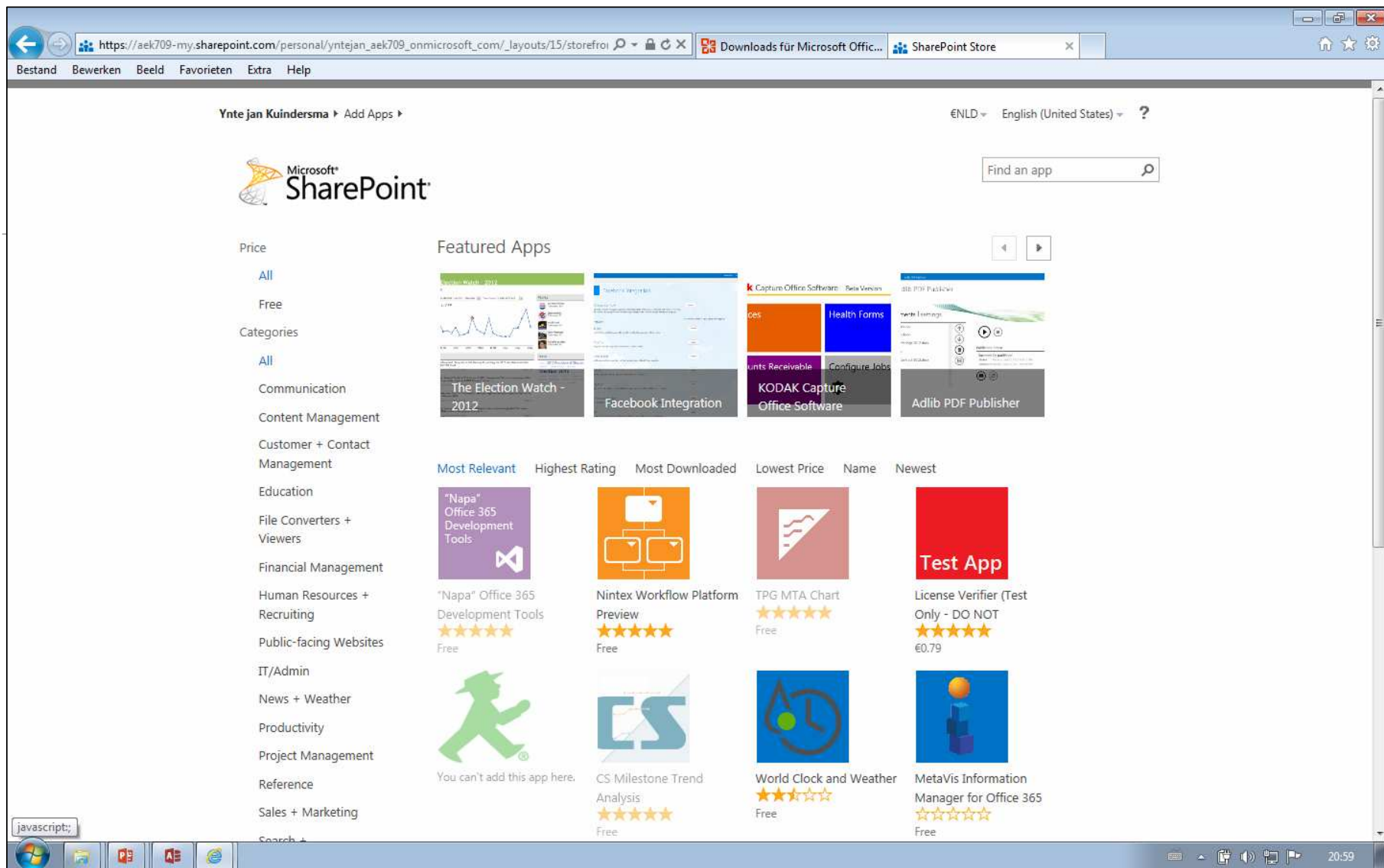
Office 365

- Small Business Premium
- Enterprise
- Developer









Bestand Bewerken Beeld Favorieten Extra Help

https://aek709-my.sharepoint.com/personal/yntejan_aek709_onmicrosoft_com/_layouts/15/storefront.aspx?app=Business%20Contact%20Manager

Downloads für Microsoft Office SharePoint Store

Ynte Jan Kuindersma Add Apps ENLD English (United States)

Find an app

Business Contact Manager

from Microsoft Corporation

Navigate Up Business Contact Manager

- Contacts
- Companies
- Opportunities
- Products
- About

List Datasheet

Filter the list...

	First name	Company	CONNECT	E-mail address
	Nancy Anderson	Contoso, Ltd		
	Ryan McMinn	MSFT		
	Satomi Hayakawa	Adventure Works		
	Steve Riley	Blue Yonder Airlines		

Opportunities

Stage

Free

ADD IT

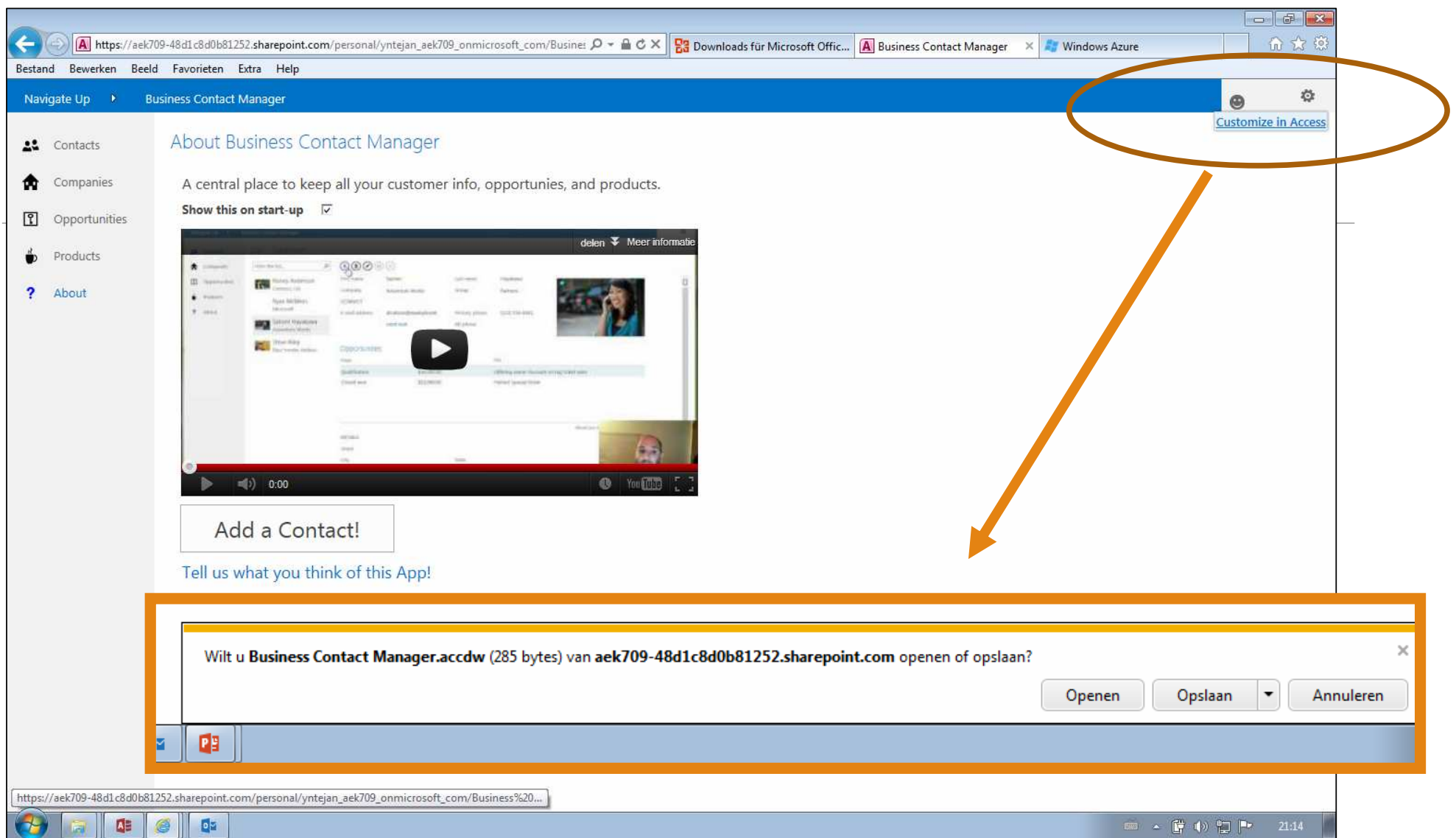
By acquiring this app you agree to its [permissions](#).

VERSION 1.0.0.0
 HIGHEST RATING ★★★★★ (1)
 DOWNLOADS 275
 RELEASE DATE August, 2012
 CATEGORY Customer + Contact Management
 SUPPORT [App Website](#)

MORE ACTIONS

Details Reviews Permissions

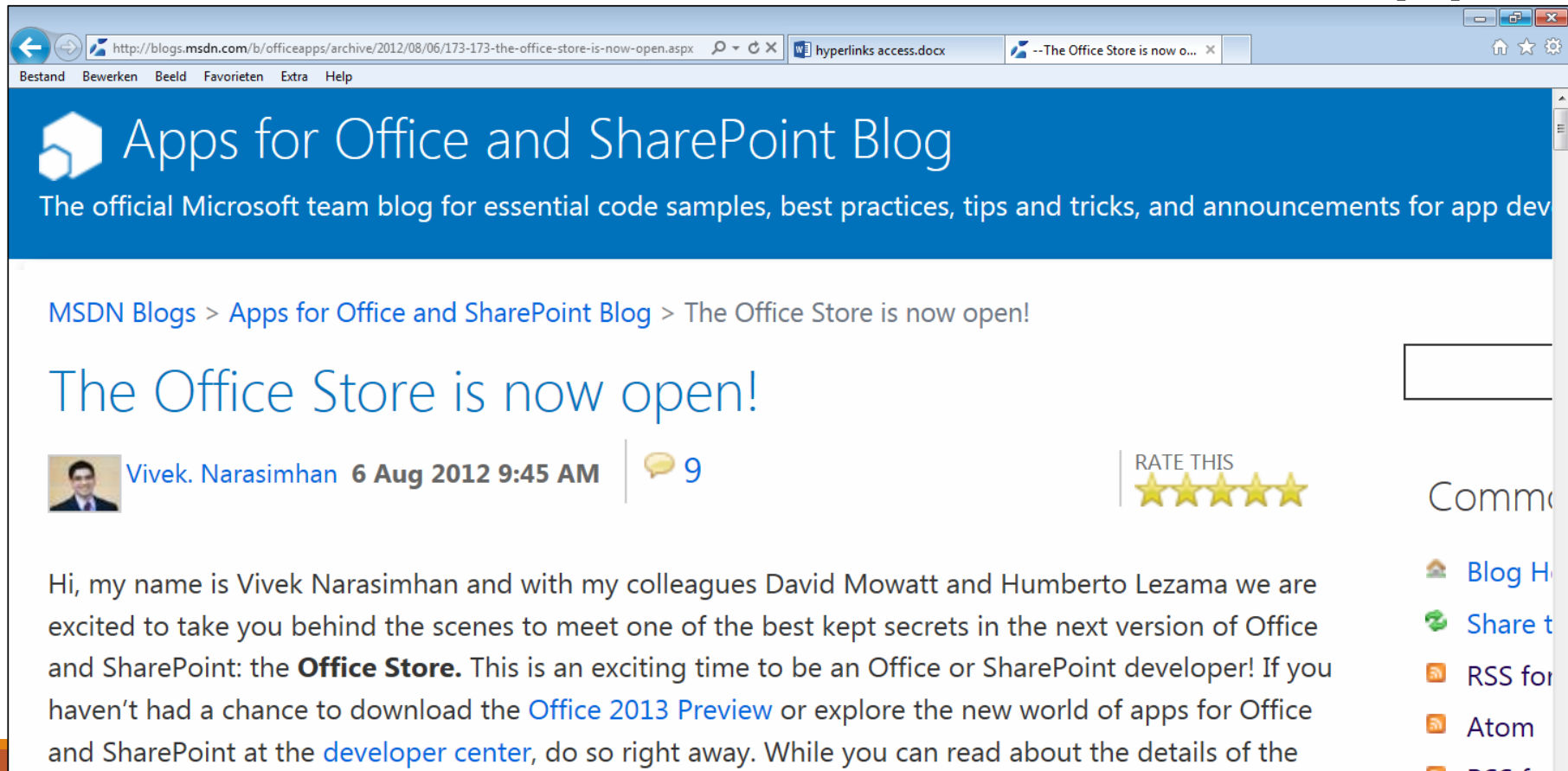
This app lets you track your customers + sales opportunities. You can customize it in Access 2013 to match your specific business by adding fields, tables and views.



Was passiert mit Datenbanken aus anderen Versionen ?

- Access 2010 Webdatenbanken werden noch unterstützt d.h. existierende Webdatenbanken können weiter verwendet werden.
- Access 2013 Webdatenbanken können auch mit verknüpften Sharepoint-Listen arbeiten, sind aber nicht „hybride“. Web- und Desktop-Anwendungen wurden getrennt.
- Klassische Desktop-Anwendungen können nicht konvertiert werden. Die Daten kann man aber importieren in SQL Server und dann eine Anwendung damit verknüpfen.

Geld verdienen? Erstelle eine App!



The screenshot shows a web browser window with the URL <http://blogs.msdn.com/b/officeapps/archive/2012/08/06/173-173-the-office-store-is-now-open.aspx>. The browser's address bar also shows a document titled "hyperlinks access.docx" and another tab titled "--The Office Store is now o...". The browser's menu bar includes "Bestand", "Bewerken", "Beeld", "Favorieten", "Extra", and "Help".

The blog post is titled "Apps for Office and SharePoint Blog" and is described as "The official Microsoft team blog for essential code samples, best practices, tips and tricks, and announcements for app dev". The post title is "The Office Store is now open!". The author is Vivek Narasimhan, and the post was published on 6 Aug 2012 at 9:45 AM. There are 9 comments and a "RATE THIS" section with five yellow stars.

The post content begins with: "Hi, my name is Vivek Narasimhan and with my colleagues David Mowatt and Humberto Lezama we are excited to take you behind the scenes to meet one of the best kept secrets in the next version of Office and SharePoint: the **Office Store**. This is an exciting time to be an Office or SharePoint developer! If you haven't had a chance to download the [Office 2013 Preview](#) or explore the new world of apps for Office and SharePoint at the [developer center](#), do so right away. While you can read about the details of the

On the right side of the blog post, there is a "Comments" section with a search box and a list of links: "Blog H...", "Share t...", "RSS fo...", and "Atom...".

Resümee

- Wenn Sie Ihre Tabellen in einer App (= SQL SERVER) unterbringen, können Sie
 - Client Anwendungen erstellen, wie Sie es gewohnt sind
 - dazu aber auch eine Webanwendung anbieten...
- Sie bekommen Exchange, Lync, SharePoint Teamsite und öffentliche Website dazu!
- Vielleicht einfach mal ausprobieren...

Hyperlinks

<http://blogs.office.com/b/microsoft-access/archive/2012/07/20/introducing-access-2013-.aspx>

<http://blogs.office.com/b/microsoft-access/>

<http://blogs.msdn.com/b/officeapps/archive/2012/08/06/173-173-the-office-store-is-now-open.aspx>

<http://blogs.office.com/b/microsoft-access/archive/2012/08/08/access-2013-and-sql-server.aspx>

<http://www.microsoft.com/germany/office/preview>

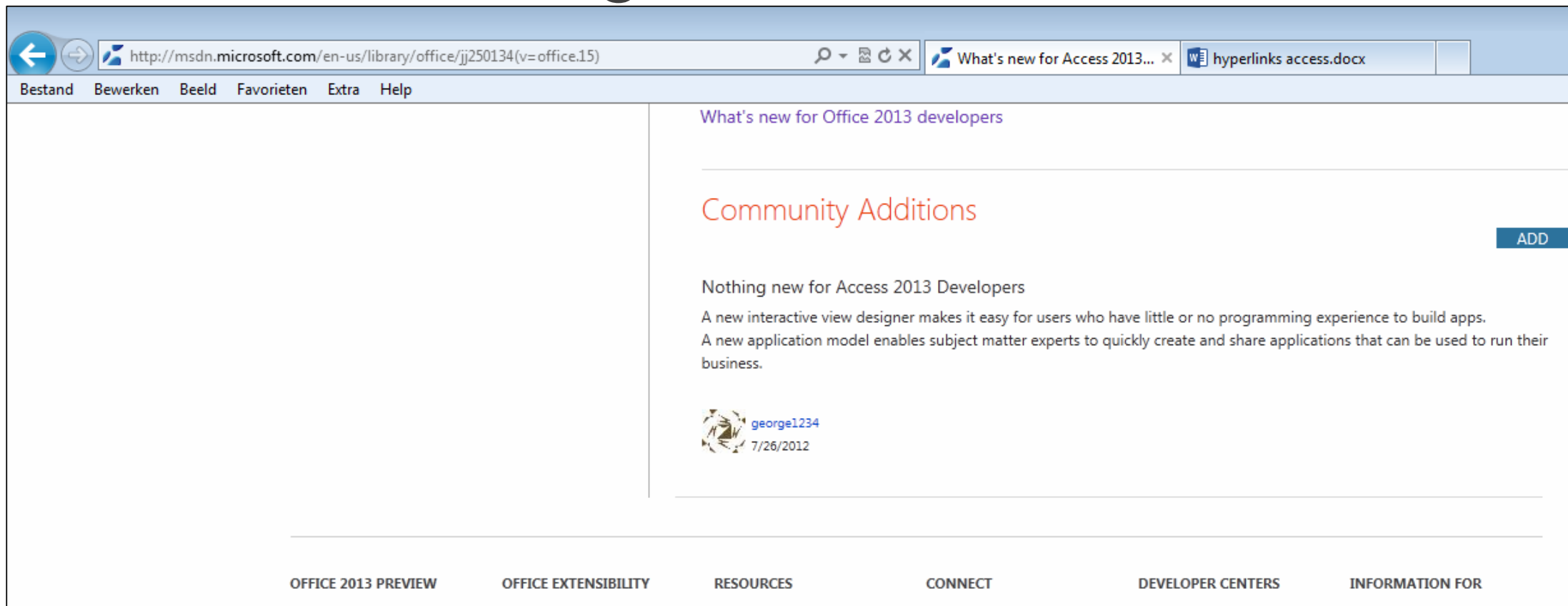
[http://msdn.microsoft.com/en-us/library/office/apps/fp179924\(v=office.15\)](http://msdn.microsoft.com/en-us/library/office/apps/fp179924(v=office.15)) (Office365 developer)

[http://msdn.microsoft.com/en-us/library/office/jj249372\(v=office.15\)](http://msdn.microsoft.com/en-us/library/office/jj249372(v=office.15)) (How to: Create and customize a web app in Access 2013 Preview)

Was hat ein Entwickler noch zu tun?

“Access 2013 Preview introduces a new application model that enables subject matter experts to quickly create and share applications that can be used to run their business. A new interactive view designer makes it easy for users who have little or no programming experience to build apps. “

Eine Meinung dazu...



Eine zweite Meinung

“There is zero new features in Access 2013 for desktop developers. In fact some features such as Form Pivot Views have been removed. So no point in updating from 2010 unless you want to create web applications in which case LightSwitch is more advanced than Access 2013 and may be the better choice I tested creating a web application and was able to import small tables but the first large table the import keeps falling over. Also, it appears it does not import table relationships so unlike LightSwitch automatically creating a textbox with the lookup value for lists and replacing the textbox with a combo box when editing.

...”

Finlay McMillan

<http://blogs.office.com/b/microsoft-access/archive/2012/07/20/introducing-access-2013-.aspx>