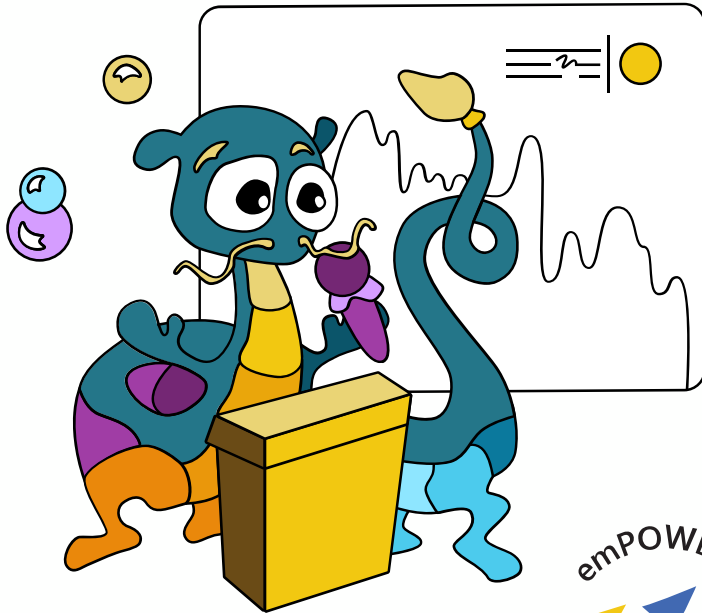


Mastering Model Driven Apps: From Beginner to App Maker

Friday 6 October | 8-3

Lisa Crosbie

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Microsoft Power Platform
CONFERENCE

Get *Uhova* for Microsoft Power Platform Conference - Fall 2022



Microsoft Power Platform Conference - Fall 2022 Official Event App

- Explore the **professional profiles** of event speakers and attendees
- Send **in-app messages** and **exchange contact info**
- **Network and find attendees** with common affiliations, educations, shared networks, and social profiles
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The event invitation code is:
MPPCFall22

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A brand-new upskilling program for people from non-technical backgrounds, to enable them to get better career opportunities.

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JOIN THE COMMUNITY

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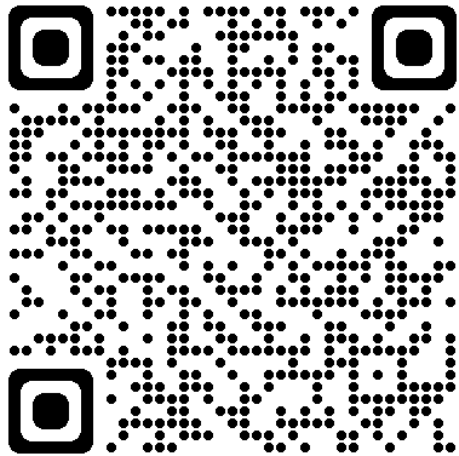
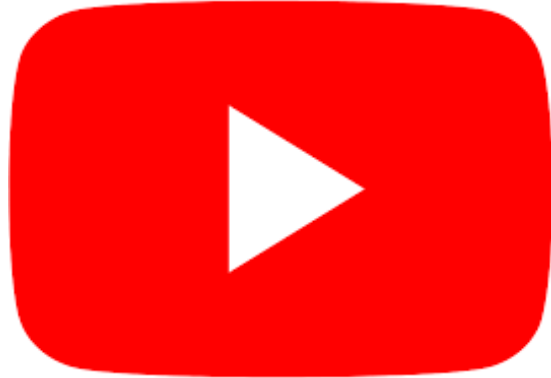
POWER PAGES

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aka.ms/JointheCommunity





LISA
CROSBIE



WORKSHOP AGENDA

Morning: Build Your App

8:00 - Introduction to Model-Driven Apps

- Use cases
- Gathering requirements, designing a data model
- Demonstration of core concepts and what you will build

9:15 – Login and create a Developer Environment

9:30 – Break (catering not provided, Starbucks nearby)

- Time allowed here for troubleshooting for logging in, or Q&A

10:00 – Build a model-driven Power App

- Settings and solutions
- Build a data model – tables, columns and relationships
- Build app components – forms and views
- Business process flows
- Create an app and navigation
- Test your app – create records, import data, use Copilot
- Sharing your app and setting up security roles

12:00 – Lunch (catering provided)

Afternoon: Enhance Your App

1:00 – Enhance your app with additional components:

- Power Apps grid control
- Automations to create appointments and update data
- Custom welcome page

2:15 – Working with the Microsoft 365 stack

- Virtual tables from SharePoint
- Related documents
- Emails, appointments, Teams meetings, tasks,

2:45 – Q&A

3:00 - Close

GETTING STARTED

- Workshop Guide and Resources:

<https://github.com/lisamcrosbie/MDA>

- **Please collect a login to use today**
 - In Private/Incognito Browser (with pop ups enabled)
 - **aka.ms/PowerPlatformDeveloperPlan**
 - Login with the credentials provided and follow the steps in the workshop guide

WHAT IS A MODEL DRIVEN APP?





I NEED A
DATABASE
FOR MY
BUSINESS

No data source

Current data
source isn't serving
you well



MICROSOFT DATAVERSE

Data

Business process and logic

Complex Security

Storage and scalability

Connect other applications

HOW TO BUILD A MODEL DRIVEN APP

01

Start with
Microsoft
Dataverse

02

Build your
user
interface
with no code

03

Fully
responsive
and
accessible

04

Connected
to other
Microsoft
services



USE CASES

Manage your
customer
data

Onboarding
employees

Manage
complaints or
ideas

Manage an
inspection
process

“Mission
critical”
databases

Portal access
for customers

BUSINESS REQUIREMENTS AND DESIGNING A DATA MODEL



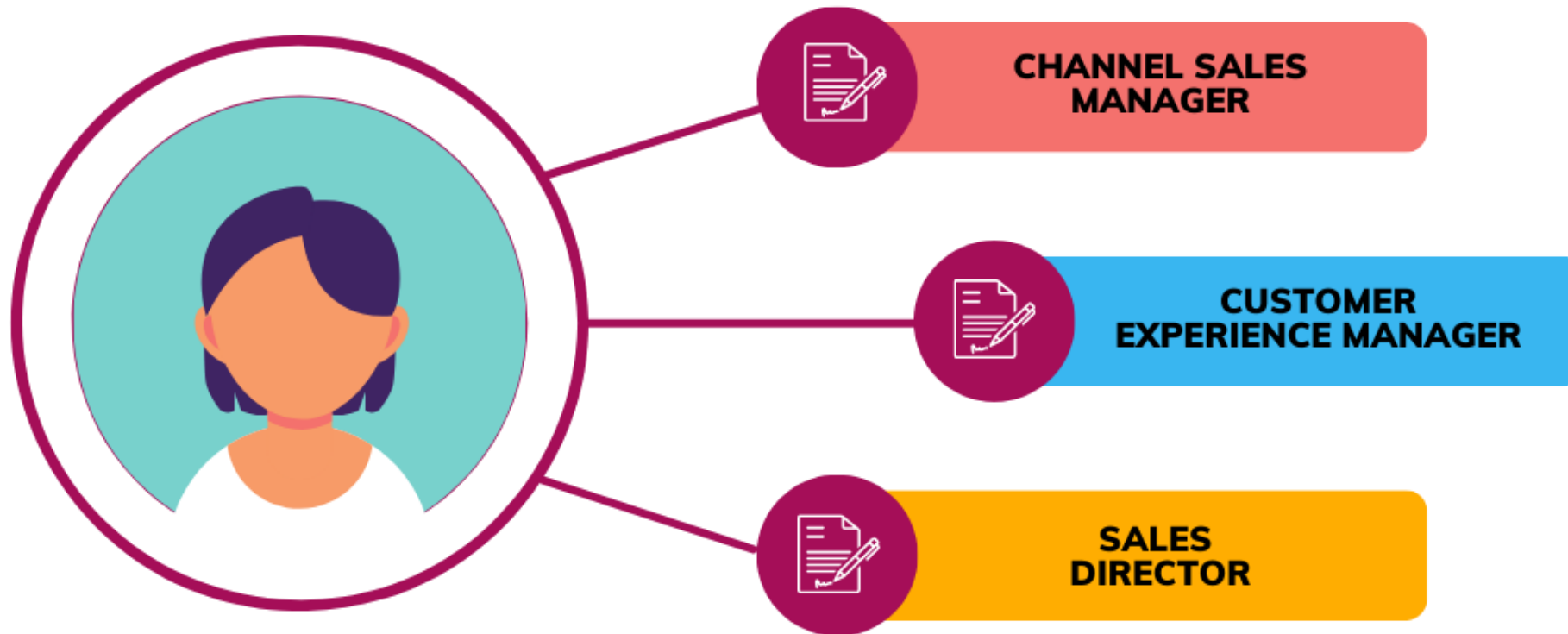
DATABASE RELATIONSHIPS

One to Many

Many to One

Many to Many

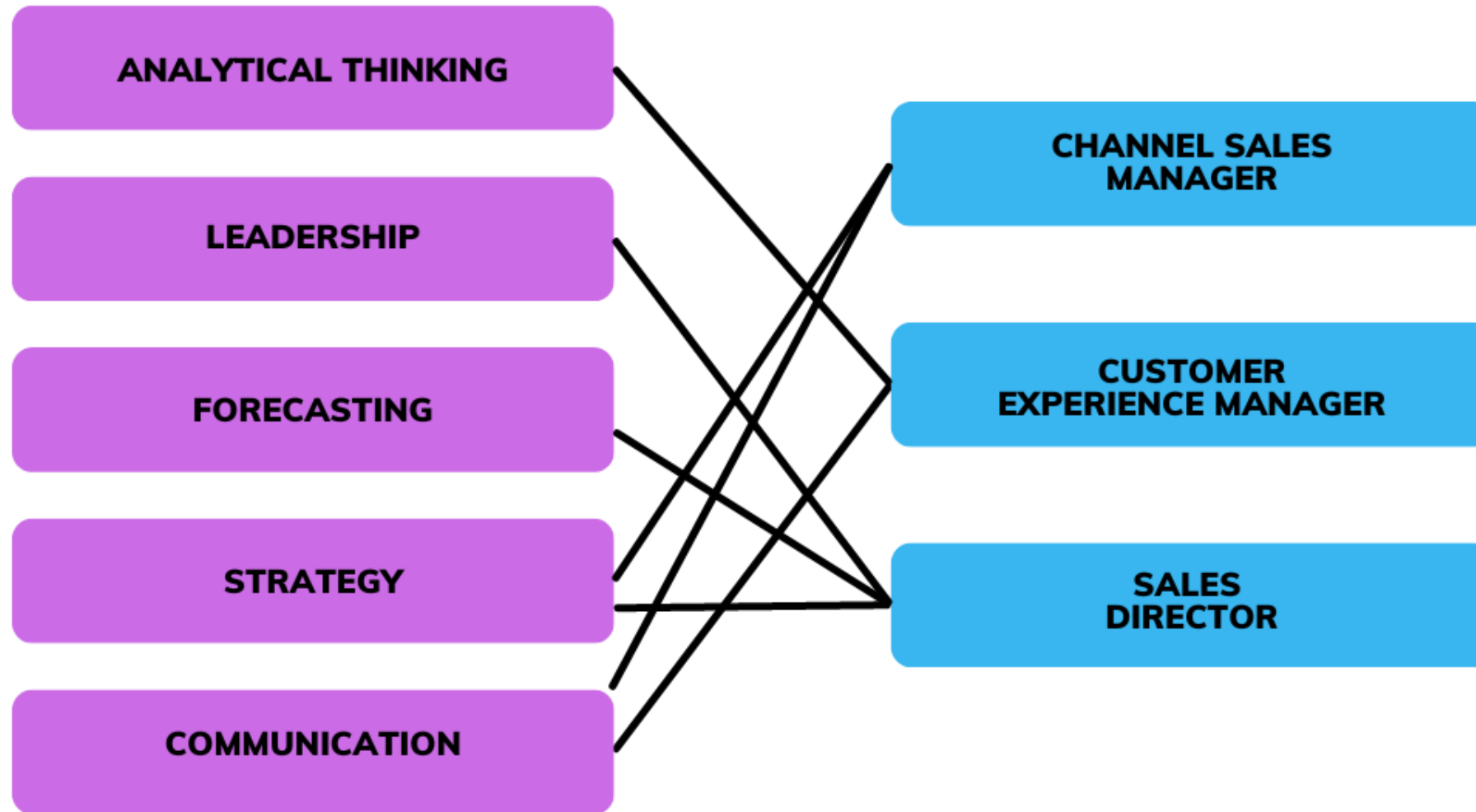
ONE TO MANY



MANY TO ONE



MANY TO MANY





Shapes

Search for shapes



Crow's Foot Database Notation Shapes



Entity



Entity With

attribute name

Attribute



Primary Key

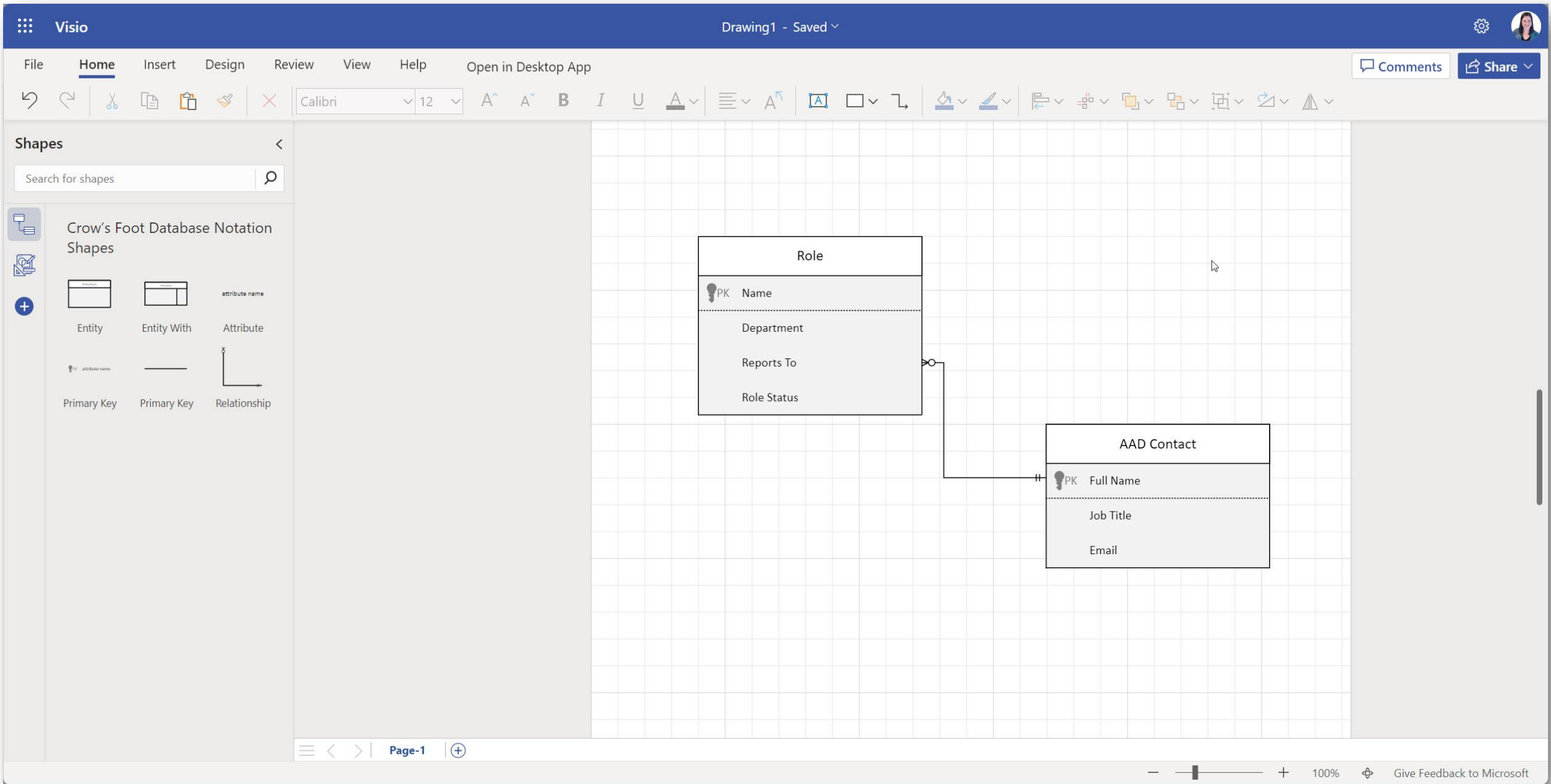


Primary Key



Relationship







Shapes

Search for shapes



Crow's Foot Database Notation Shapes



Entity



Entity With

attribute name

Attribute



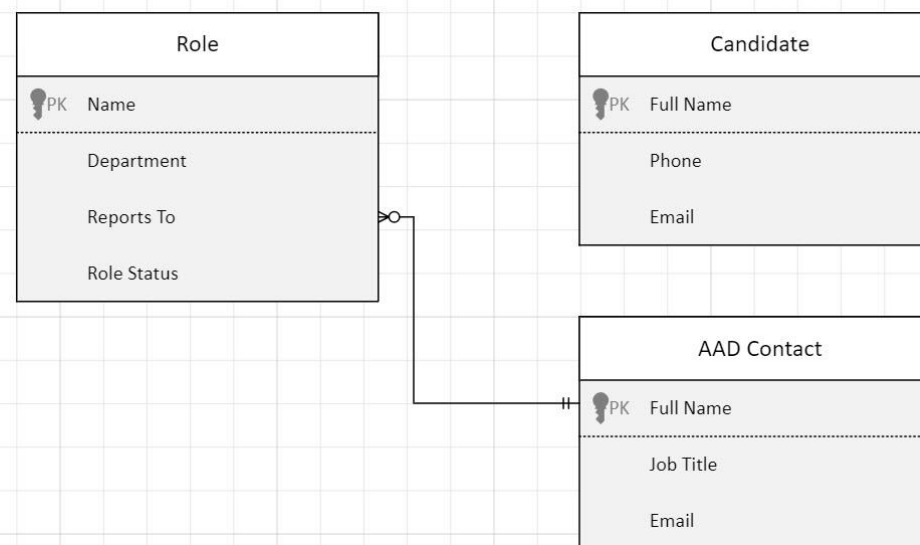
Primary Key

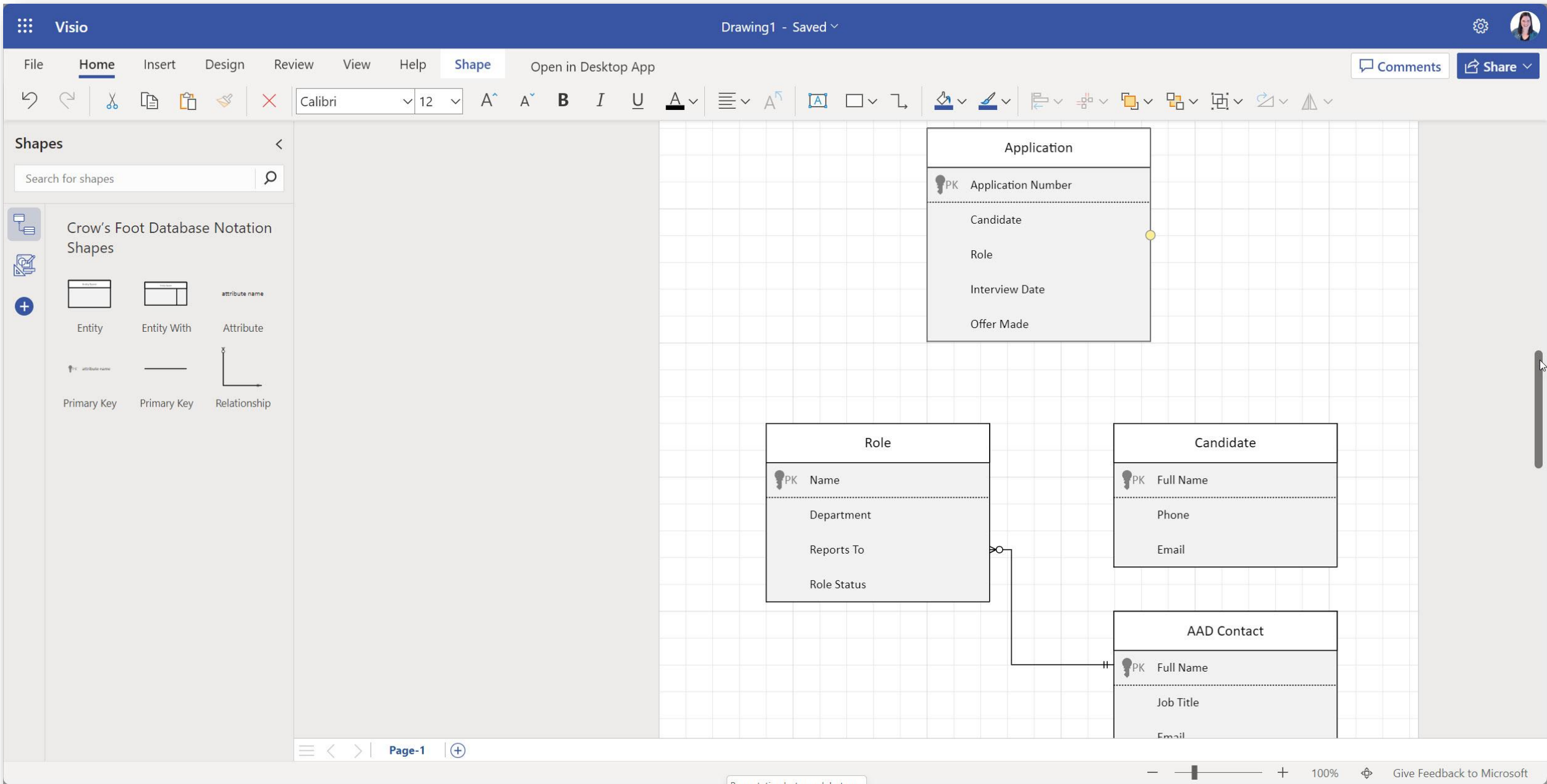


Primary Key



Relationship





<



The diagram illustrates the symbols used in an Entity-Relationship (ER) model:

- Entity:** Represented by a rectangle with a double line on the top edge.
- Entity With:** Represented by a rectangle with a double line on the top edge and a vertical line on the right edge.
- Attribute:** Represented by a simple rectangle.
- Primary Key:** Represented by a rectangle with a double line on the top edge and a small circle (key symbol) on the bottom left corner.
- Relationship:** Represented by a line with an arrow at both ends.



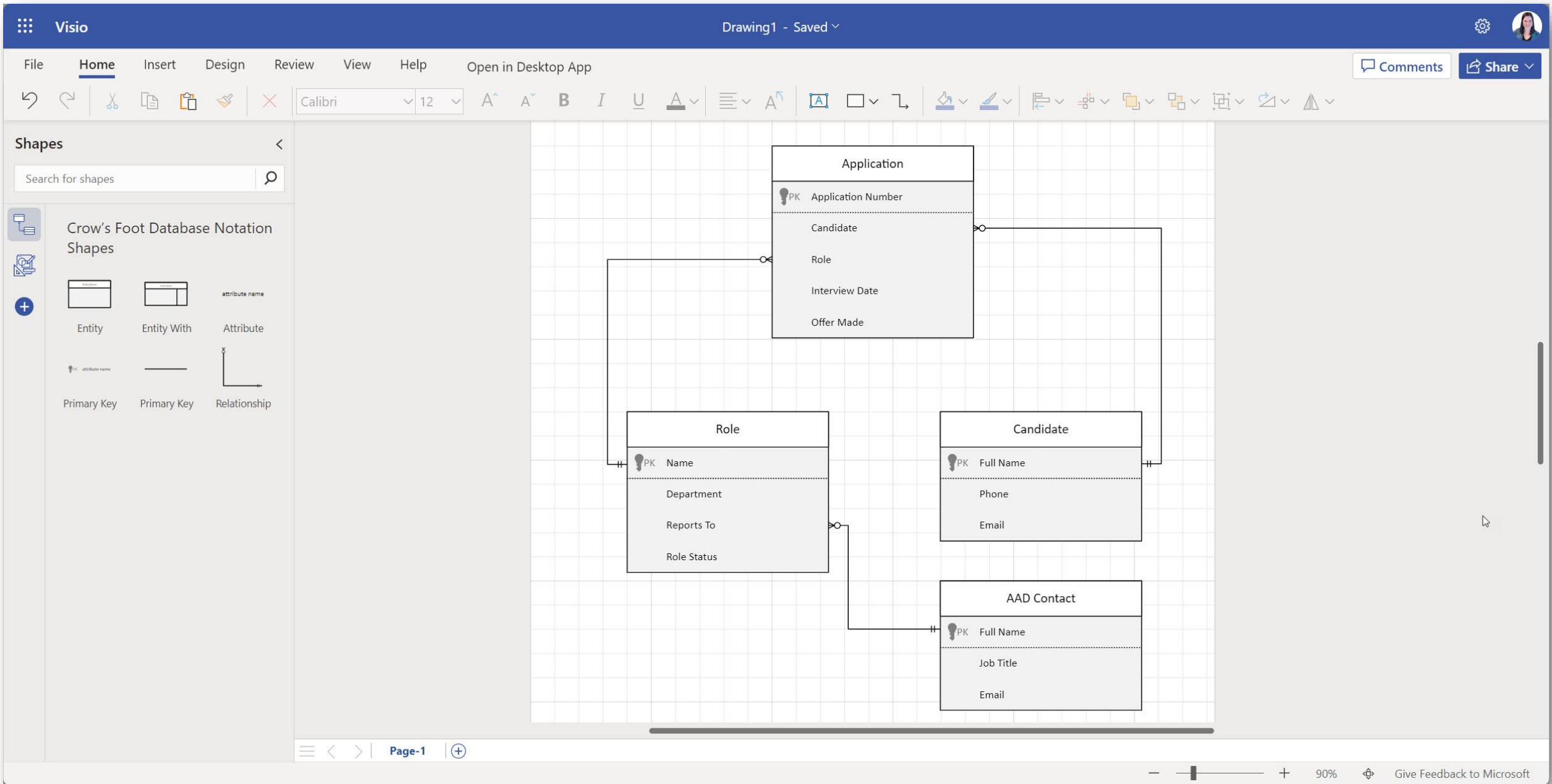
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attribute name

Attribute

Relationship







CORE COMPONENTS OF MODEL DRIVEN APPS

- Tables
- Columns
- Forms
- Views
- Business Process Flows



ENHANCING YOUR APP

- More forms and views
 - Quick create
 - Quick view forms
 - Subgrids
 - Lookup views
- Power Apps Grid Control
- Automated processes
- Custom Pages

WHAT YOU WILL BE BUILDING TODAY

