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Mastering Model Driven Power Apps

Lisa Crosbie

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Microsoft® MVP Most Valuable Professional

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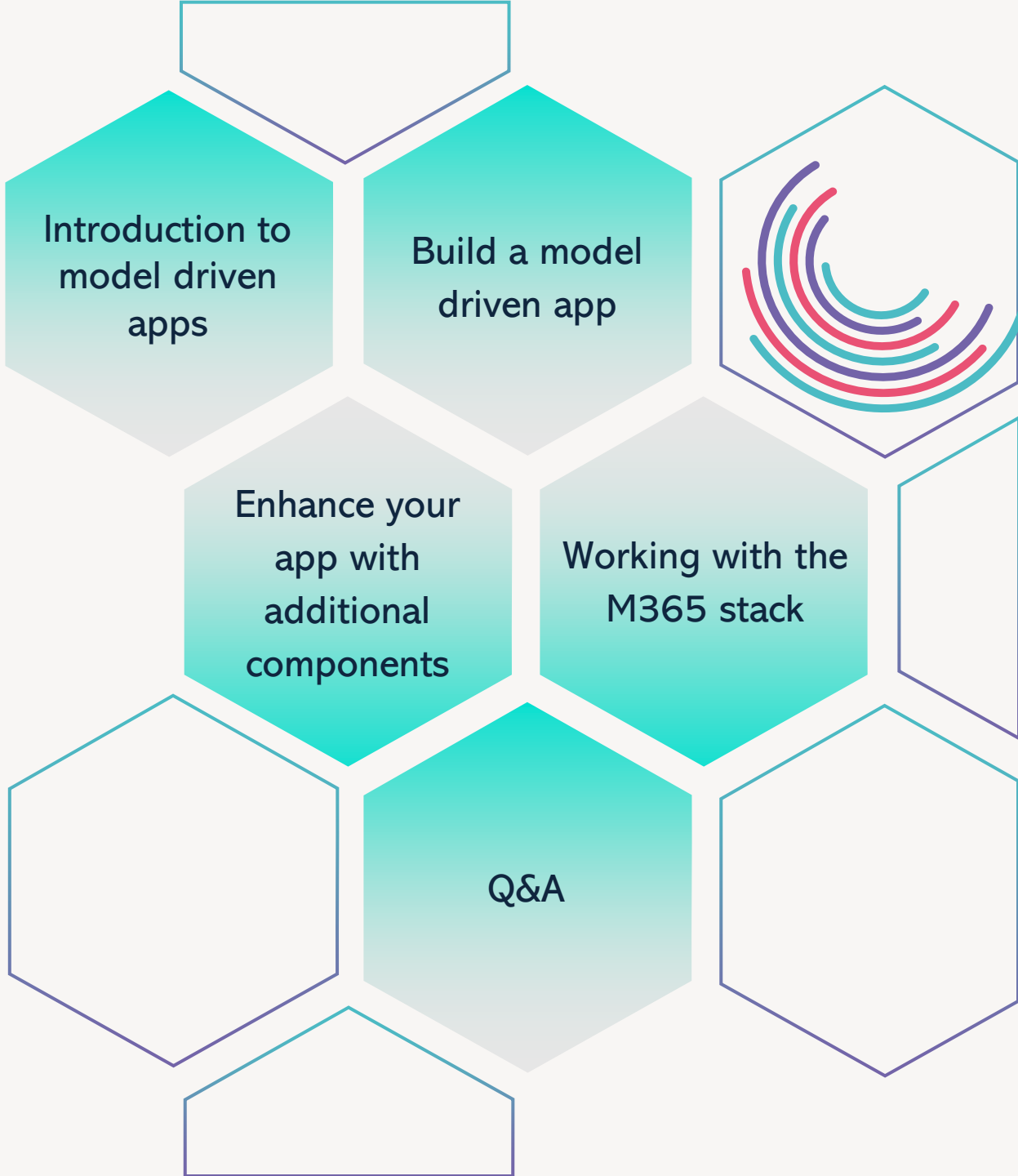
Agenda



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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

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Getting started

- Workshop Guide and Resources:

  https://github.com/lisamcrosbie/MDASCS

- Please collect a login to use today
  - In Private/Incognito Browser (with pop ups enabled)
  - **aka.ms/PowerAppsDeveloperPlan**
  - Click: Start for Free
  - Login with the credentials provided

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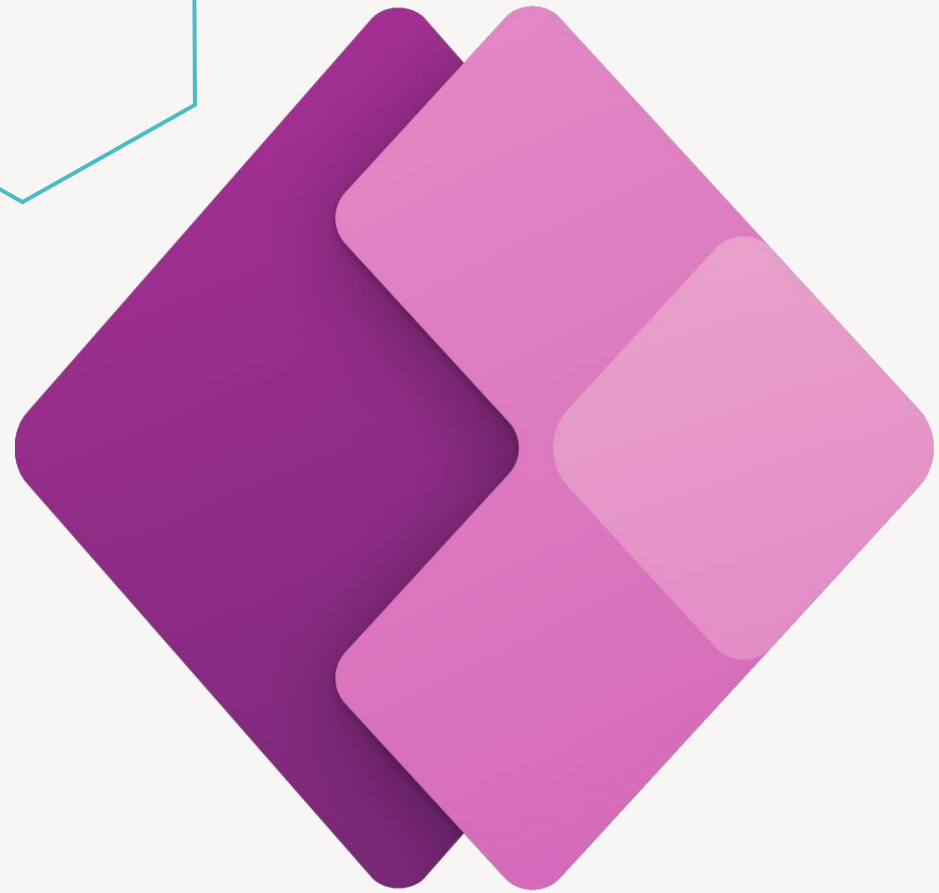
What is a Model Driven App?

(and why would you want to use one?)



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I need a database for my business

No data source

- New initiative
- Paper based systems

Current data source isn't serving you well

- Torturing Excel
- Hitting the limits of SharePoint
- Legacy systems
- Inflexible / disconnected point solutions

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Let’s talk about Licensing …

- Productivity vs Enterprise Databases
  - Model driven apps are enterprise database applications
- You need Power Apps Premium Licensing
  - Everyone who uses the app needs a premium licence
- You can’t use a model-driven Power App with just a M365 license
  - That means E3, E5 as well – those are still M365 licences

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Microsoft Dataverse

- Data
- Business process and logic
- Complex Security
- Storage and scalability
- Connect other applications

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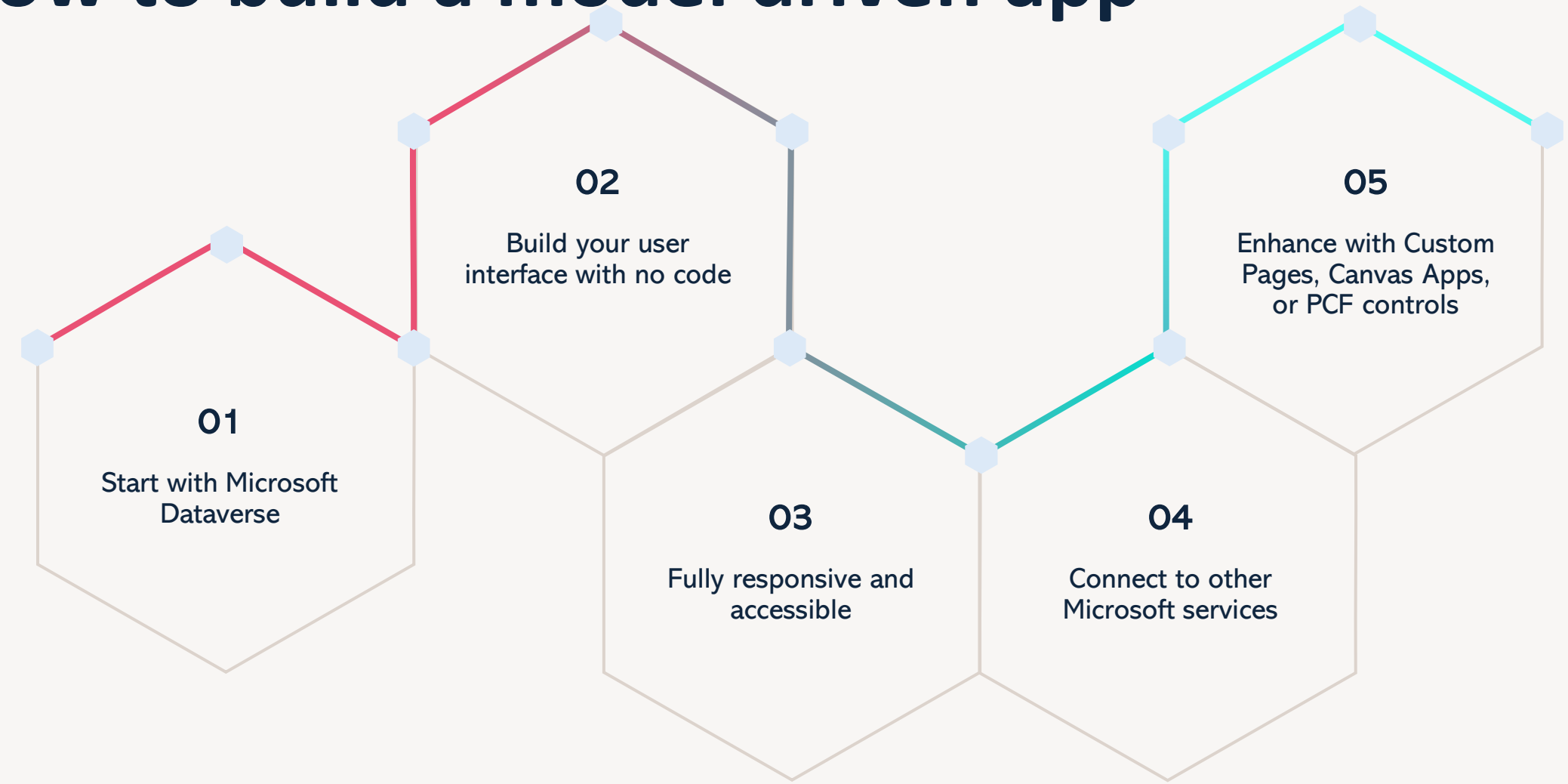
How to build a model driven app



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Use Cases

- Manage your customer data
- Onboarding employees
- Manage complaints or ideas
- Manage an inspection process
- “Mission critical” databases
- Portal access for customers

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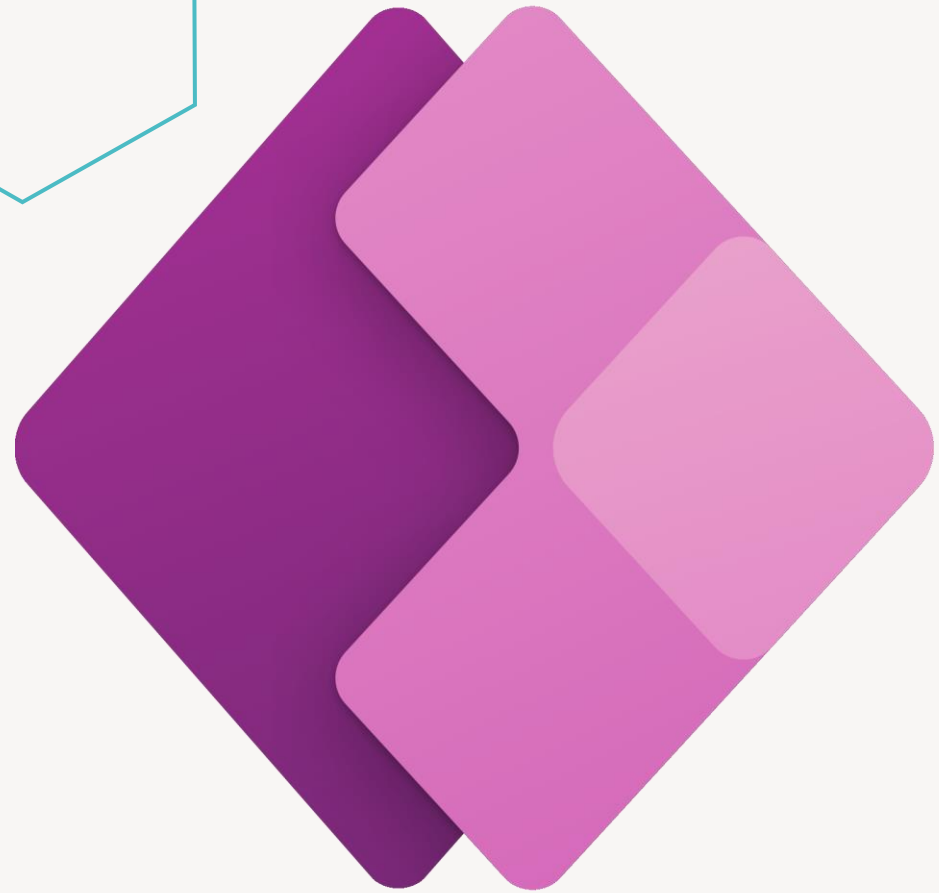
Business requirements and designing a data model

(The hardest part!)



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Gathering requirements (1)

- **Recruitment Manager:** "Okay, I'll be honest. This tech stuff isn't really my strong suit. But I know we need something better than the current system... or rather, the lack of one. Let me try to walk you through what happens, and maybe you can help me figure out what we need?
- 1. **Candidates... Everywhere:** People send in their CVs through email, post, and sometimes even walk-ins. It's just a mess. There needs to be a way to put all this... somewhere. I don't know, like a digital folder for each person?
- 2. **Stages? Steps?** I guess, after we get the CVs, we call some folks, then meet a few, sometimes more than once. Then there are some tests we give. But it's all very ad-hoc. Can we have some sort of... organized path or system to follow?
- 3. **Talks and Chats:** I lose track of whom I've spoken to, and when. And what we talked about. Maybe there's a way to... remember or log this?

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Gathering requirements (1)

- 4. **When to Meet:** Fixing interview times is a nightmare. Everyone's schedule clashes. Is there a tool or something where they can just... pick a time that works?
- 5. **Feedback... I Think:** After we talk to people, we have thoughts, but they're all over – post-its, diaries, random scribbles. We need them together... somehow.
- 6. **Numbers and... Charts?:** Every now and then, the big bosses ask how it's going. I scramble and make some sort of list. But if there's a button I could press, and poof, there's my report, that'd be something!
- 7. **Who Sees What:** Some stuff is... you know, not for everyone's eyes. I guess we need ways to keep some things private? But I'm not sure how.

- Honestly, I'm a bit overwhelmed. I know we need something, but I'm not quite sure what. Can you help guide me through this?"

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Gathering requirements (2)

- **Recruitment Manager:** "Hello there! First, let me express how vital this new application is for our recruitment process. Right now, everything's a bit all over the place and I believe with the right software, we could streamline the entire process. Here's what I'm thinking...
- 1. **Candidate Profiles:** I want to be able to create a profile for every candidate that comes our way. Like a digital file where I can add their resume, cover letter, references, and any other important documents or notes.
- 2. **Stages of Recruitment:** You know, our recruitment process has several stages. We start with an initial screening, then there might be a first interview, second interview, a test or task, and finally an offer or rejection. I'd like to easily move candidates through these stages in the system and keep track of where everyone is.
- 3. **Communication:** It would be really helpful if there's some way the system could help us keep track of our communication with candidates. Maybe log when we've sent them an email or had a phone call?

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Gathering requirements (2)

- 4. **Interview Scheduler:** I spend so much time trying to coordinate schedules for interviews. If there was a way for candidates to see my availability and choose a slot that works for them, that'd be brilliant.
- 5. **Feedback and Notes:** After interviews or tasks, the interviewers need to provide feedback. It'd be great if after an interview, the interviewer could go into the candidate's profile and add their feedback so it's all in one place.
- 6. **Reporting:** I occasionally need to provide reports to the higher-ups about how many positions we're hiring for, how many candidates we've seen, how long positions are open, etc. If the application could generate some basic reports for me, that'd save a lot of time.
- 7. **User Access Levels:** Not everyone should be able to see everything. For example, a junior recruiter might not need access to salary negotiations or sensitive notes. So, different levels of access would be important.
- I hope this makes sense! I'm looking for something user-friendly, intuitive, and something that'll make our lives easier. Can you help with that?"

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Database relationships

- One to Many
- Many to One
- Many to Many

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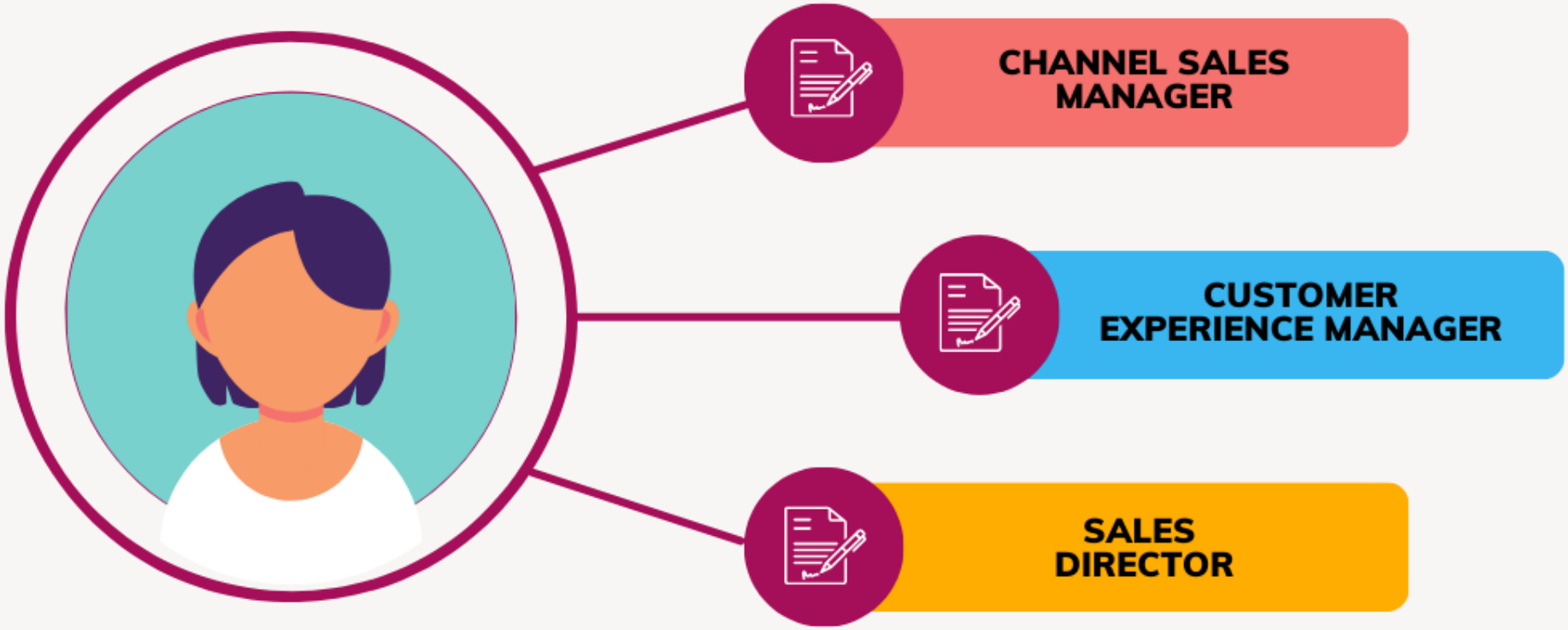
One to many



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Many to one

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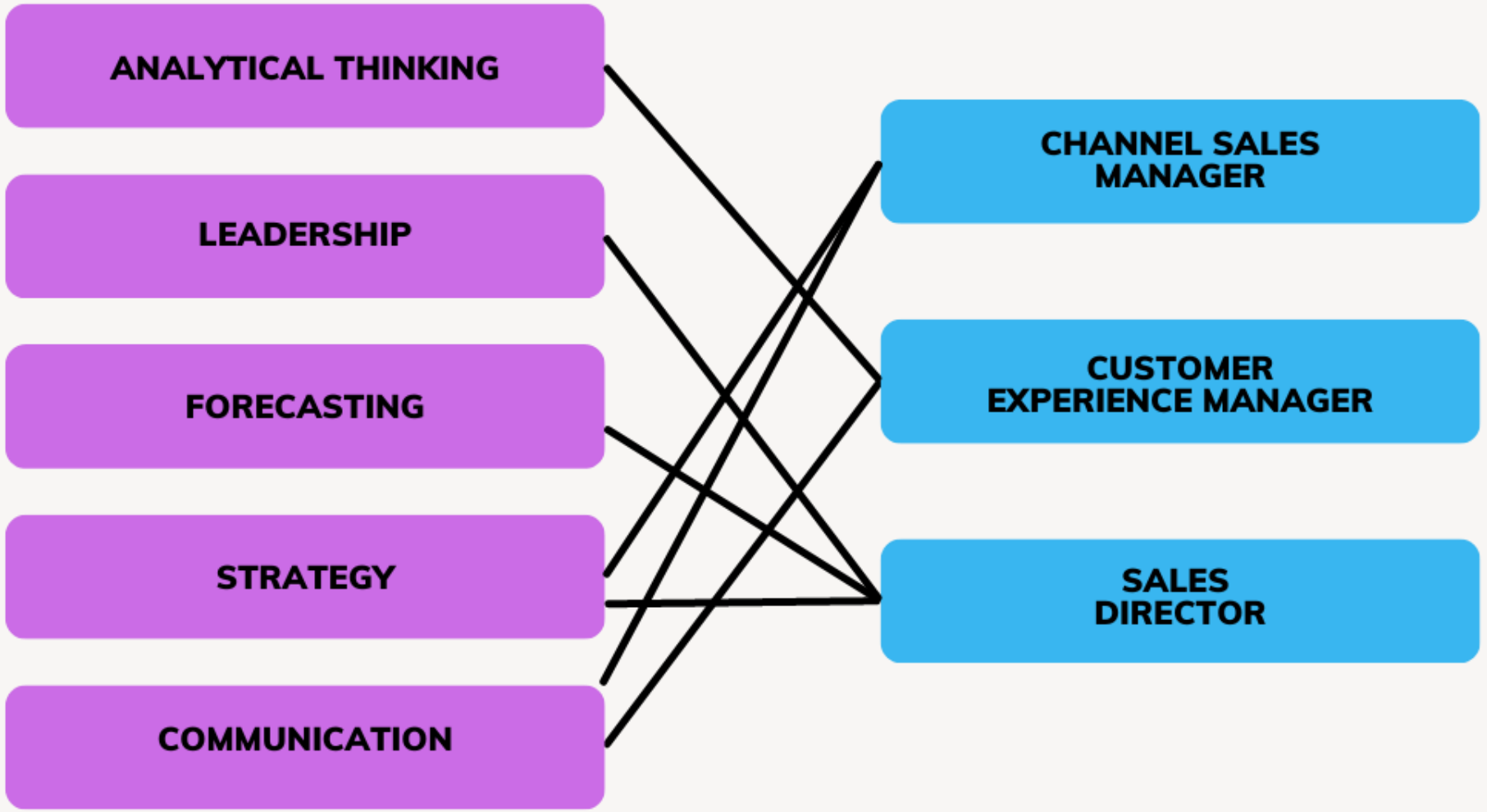
Many to many



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Shapes

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Crow's Foot Database Notation Shapes

Entity

Entity With

attribute name

Attribute

Primary Key

Primary Key

Relationship

Role

PK Name

Department

Reports To

Role Status

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Give Feedback to Microsoft

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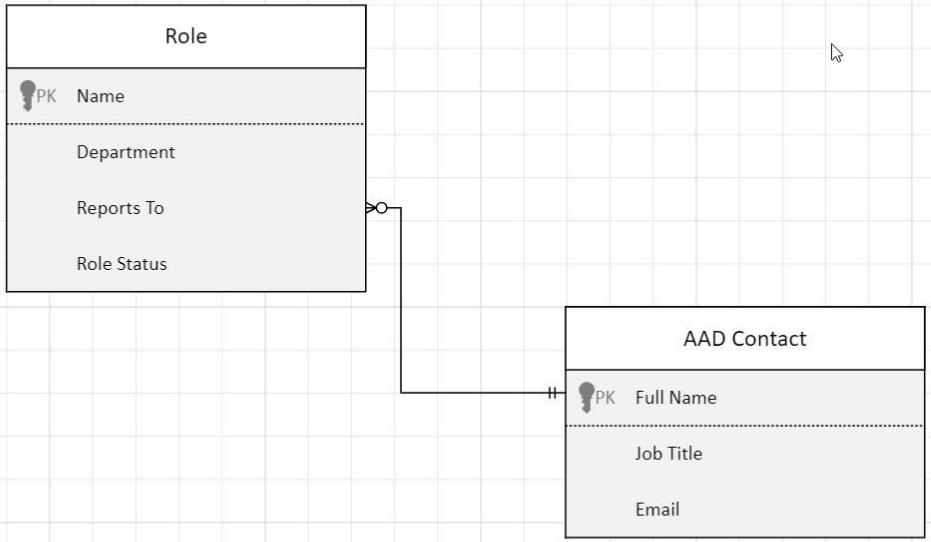

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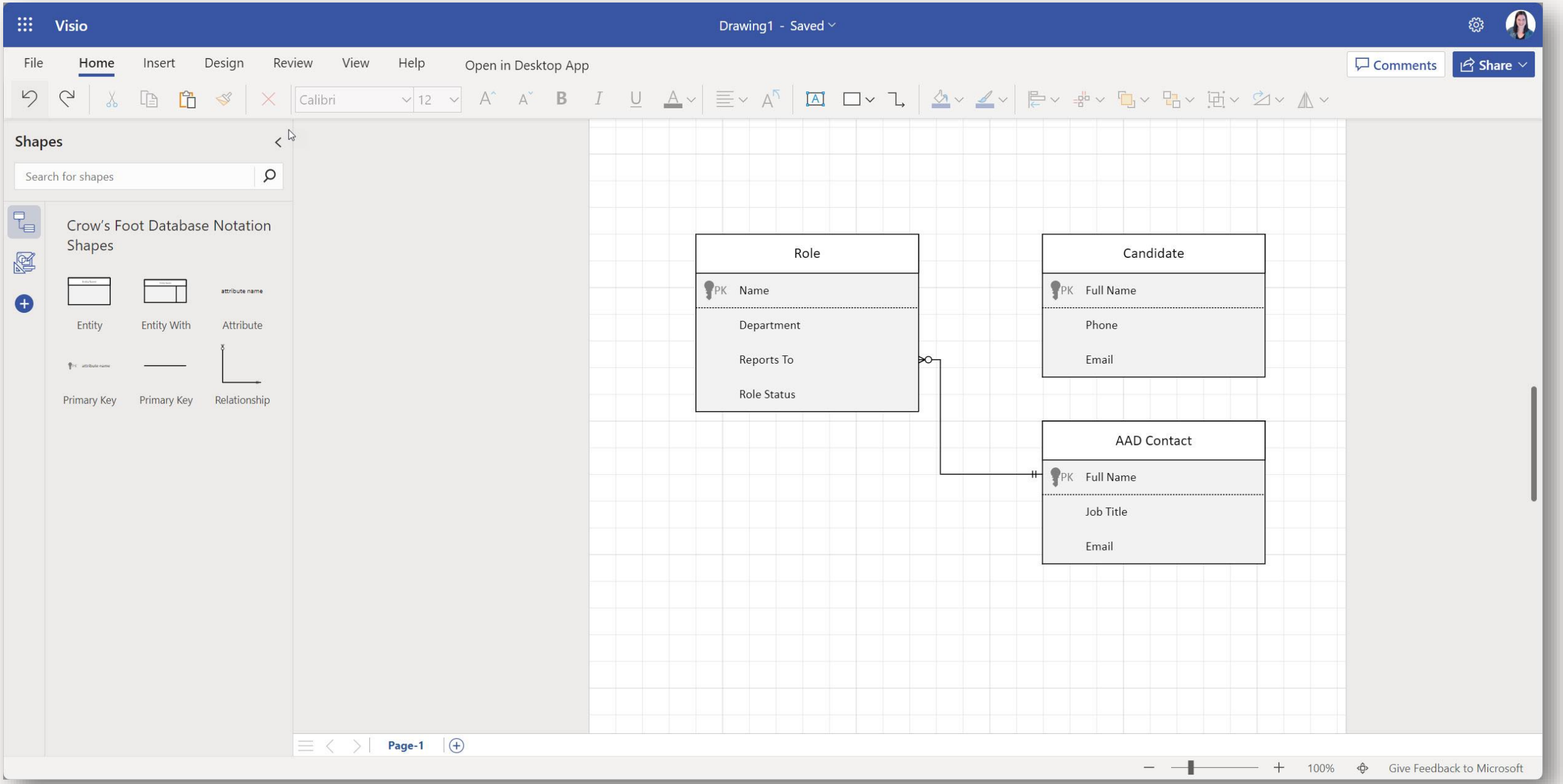

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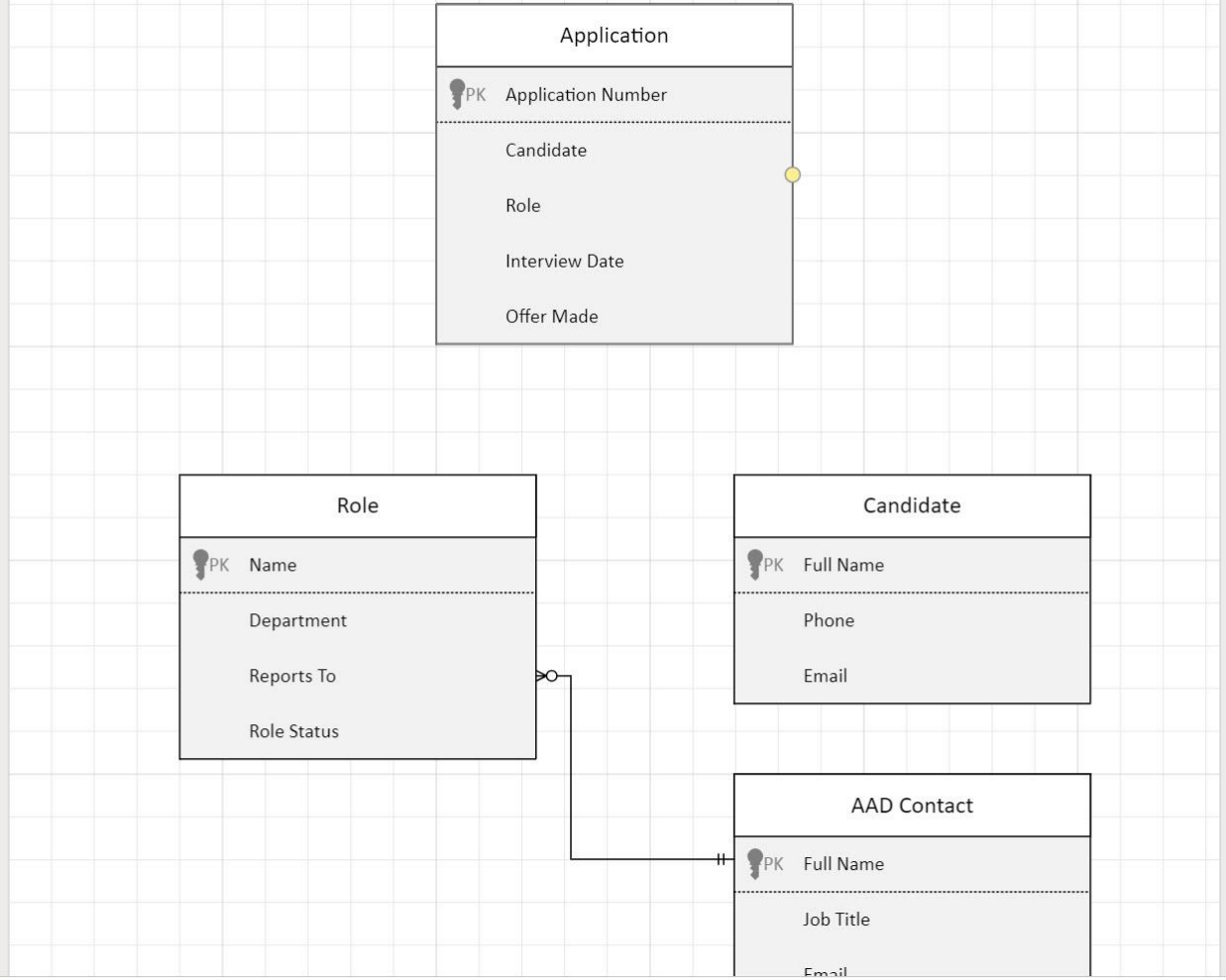
Crow's Foot Database Notation Shapes

Entity | Entity With | Attribute | Primary Key | Primary Key | Relationship



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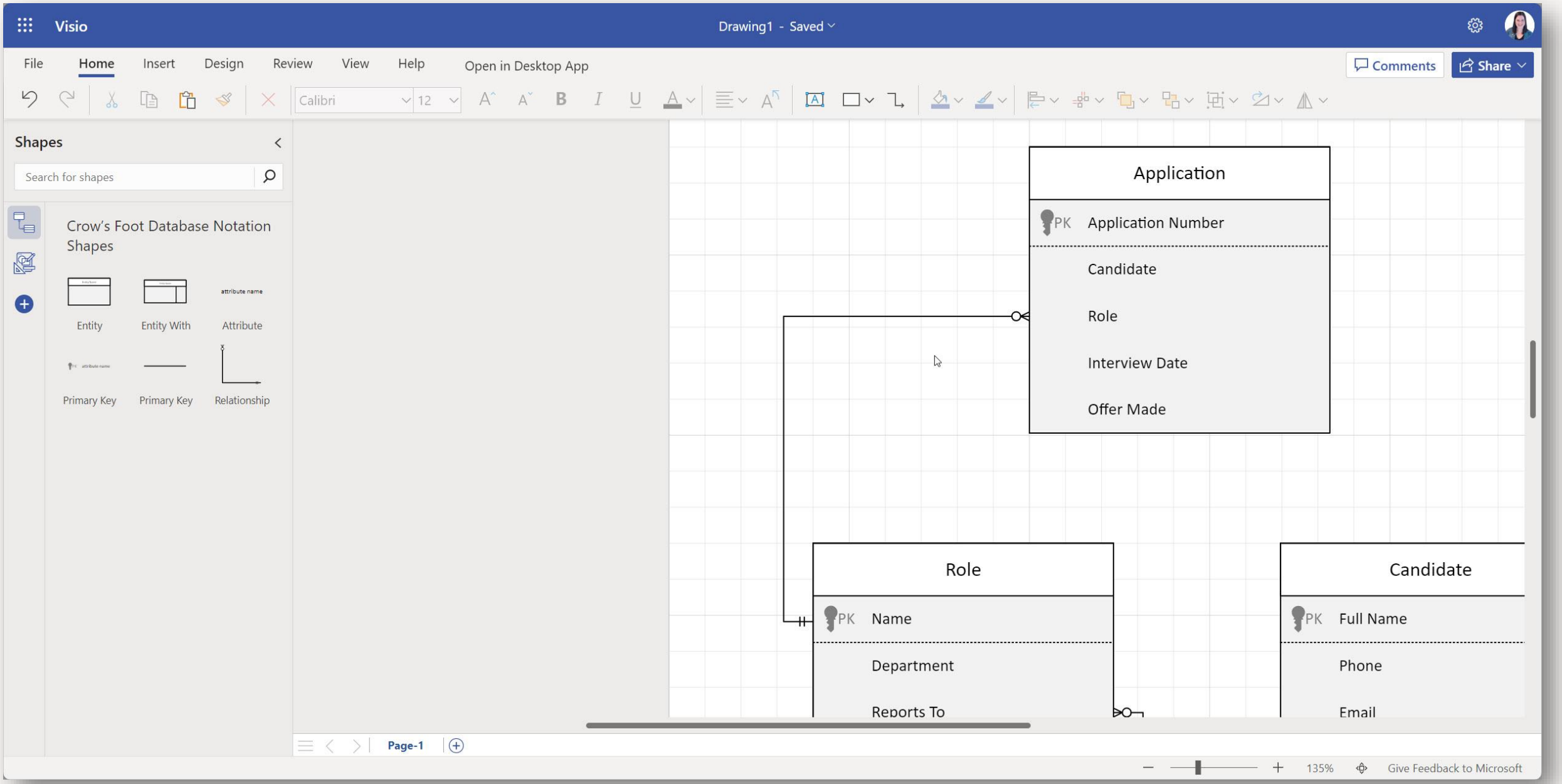

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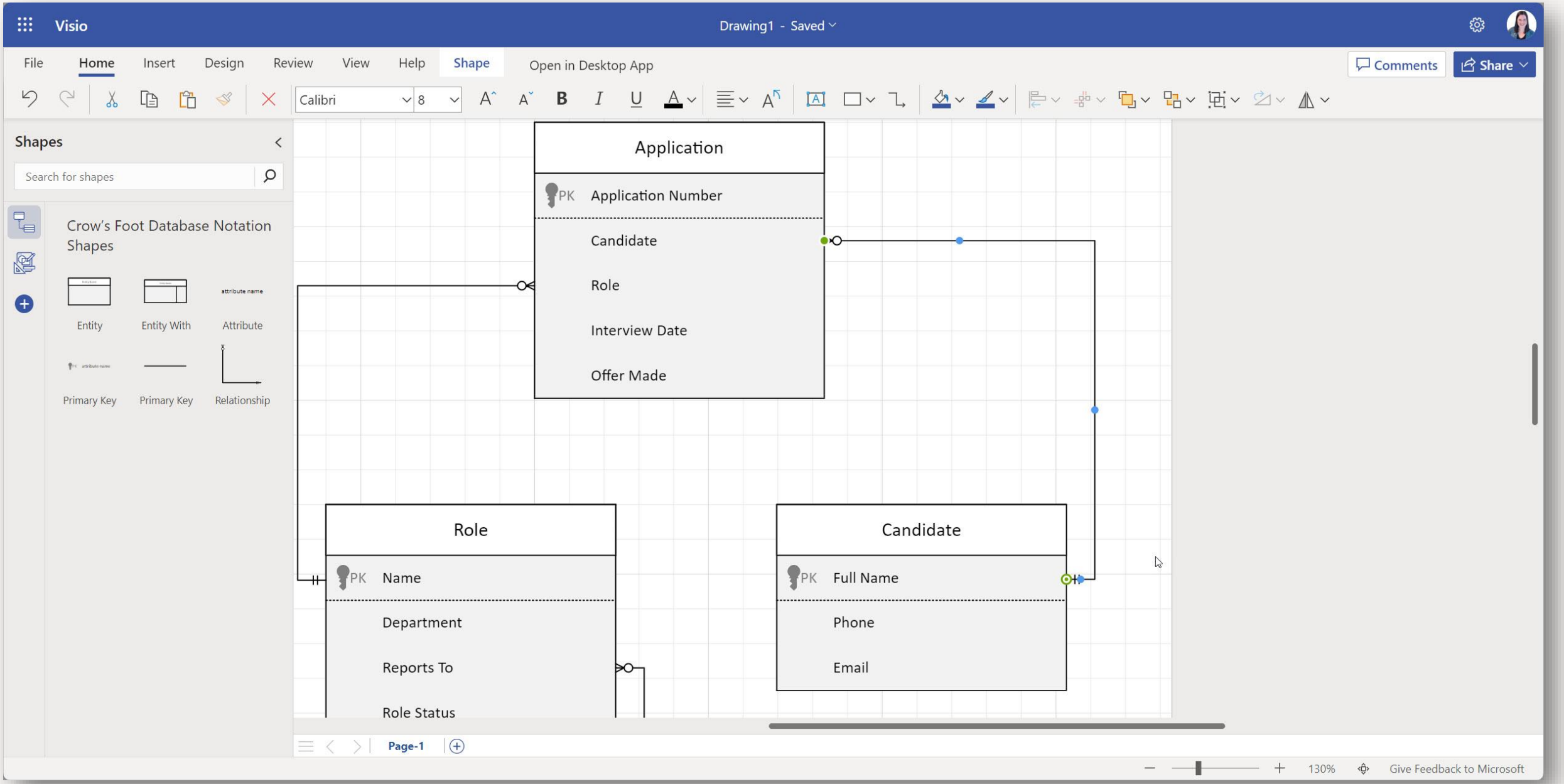

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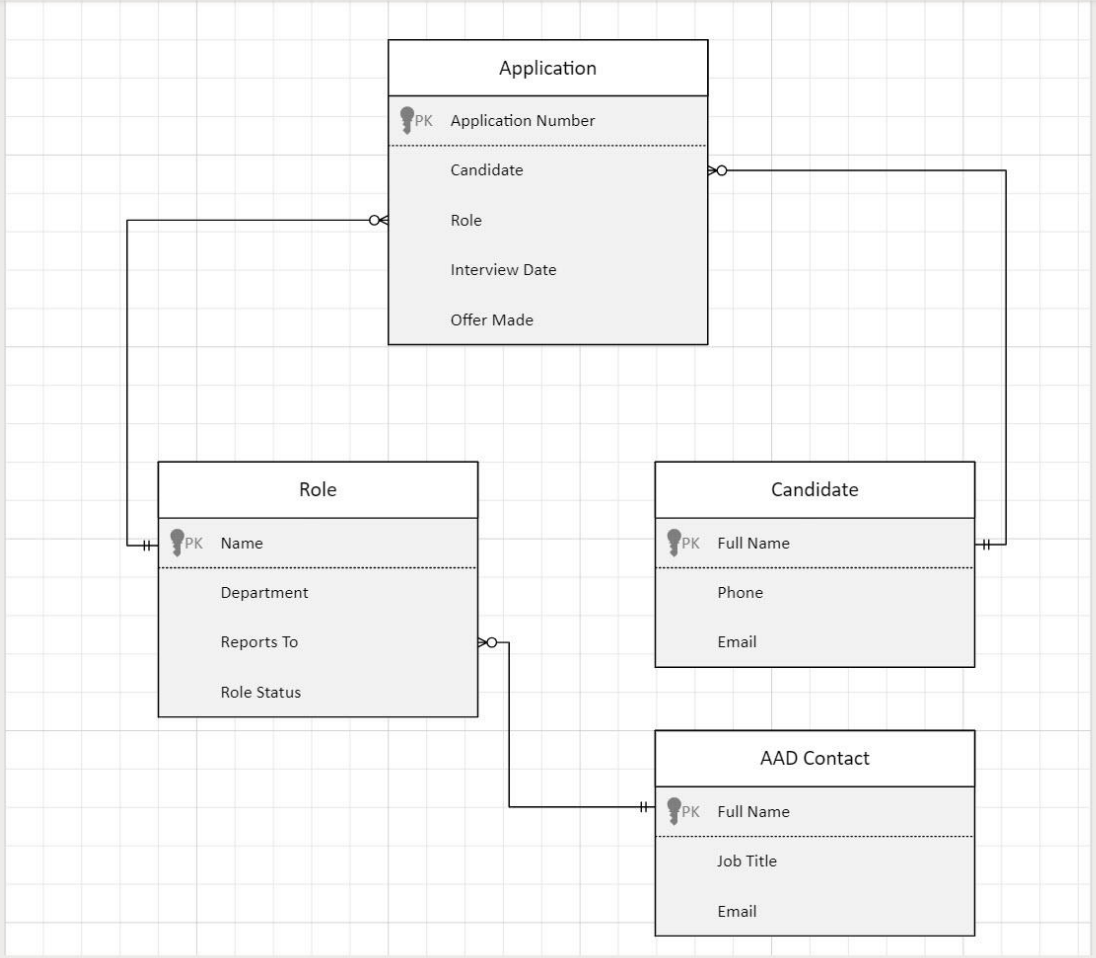
Crow's Foot Database Notation Shapes

Entity | Entity With | Attribute | Primary Key | Primary Key | Relationship



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Core components of model driven apps

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

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Enhancing your app

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

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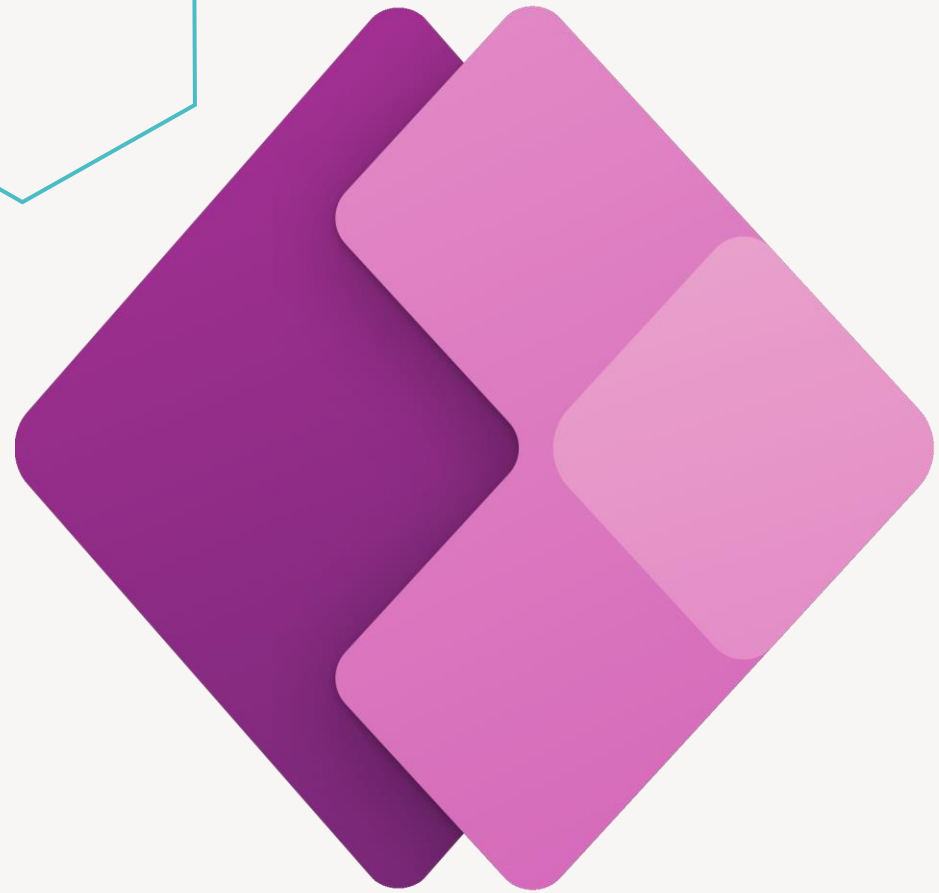
What you will be building today

Demo



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Thank you

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