

IT Arkitektur

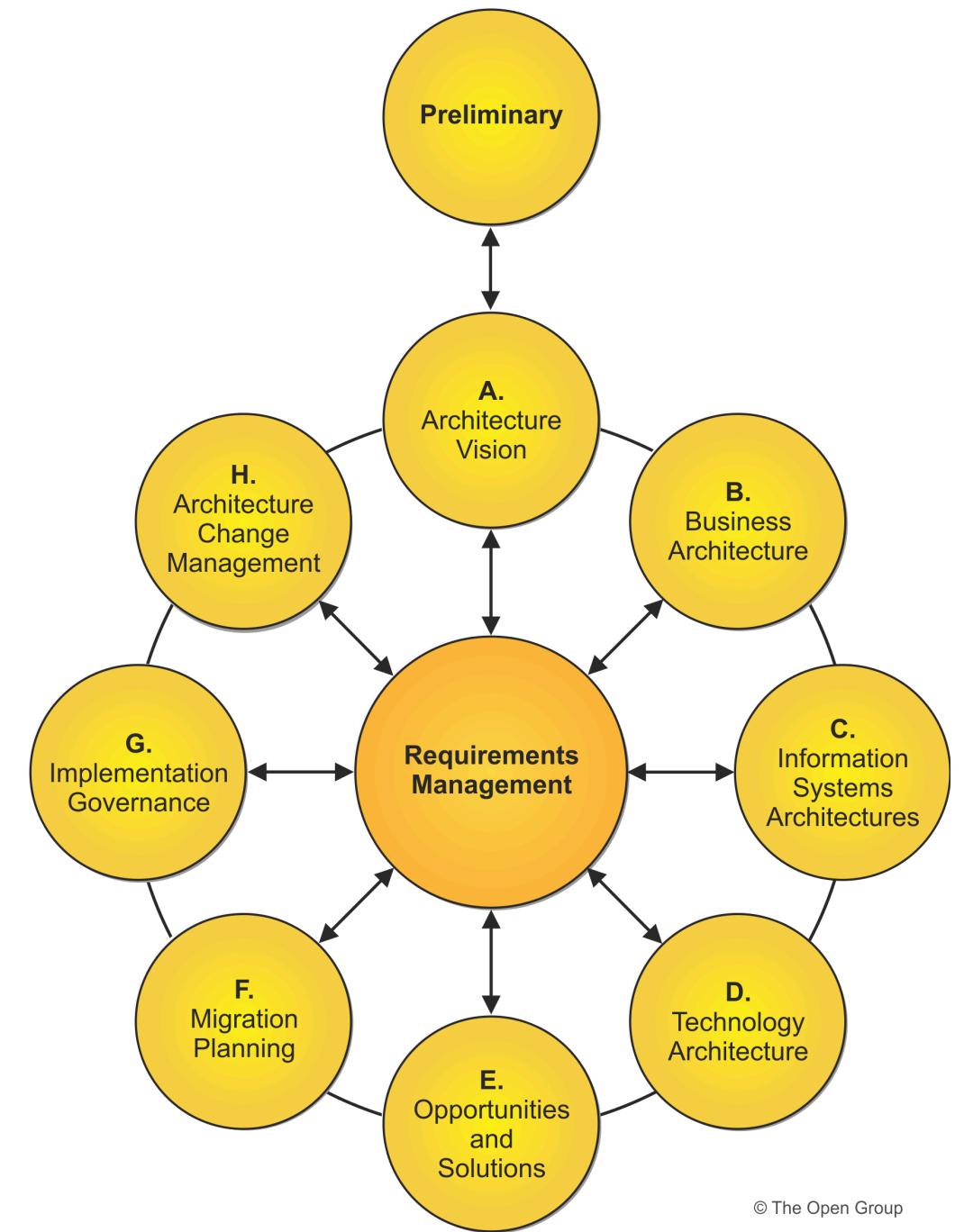


TOGAF

TOGAF, der står for "**The Open Group Architecture Framework**," er et framework til enterprise-arkitektur som tilbyder en omfattende tilgang til design, planlægning, implementering og styring af en virksomheds IT-arkitektur.

TOGAF er udviklet af "**The Open Group**", en global konsortium, der fremmer åbne standarder og certificeringer inden for IT





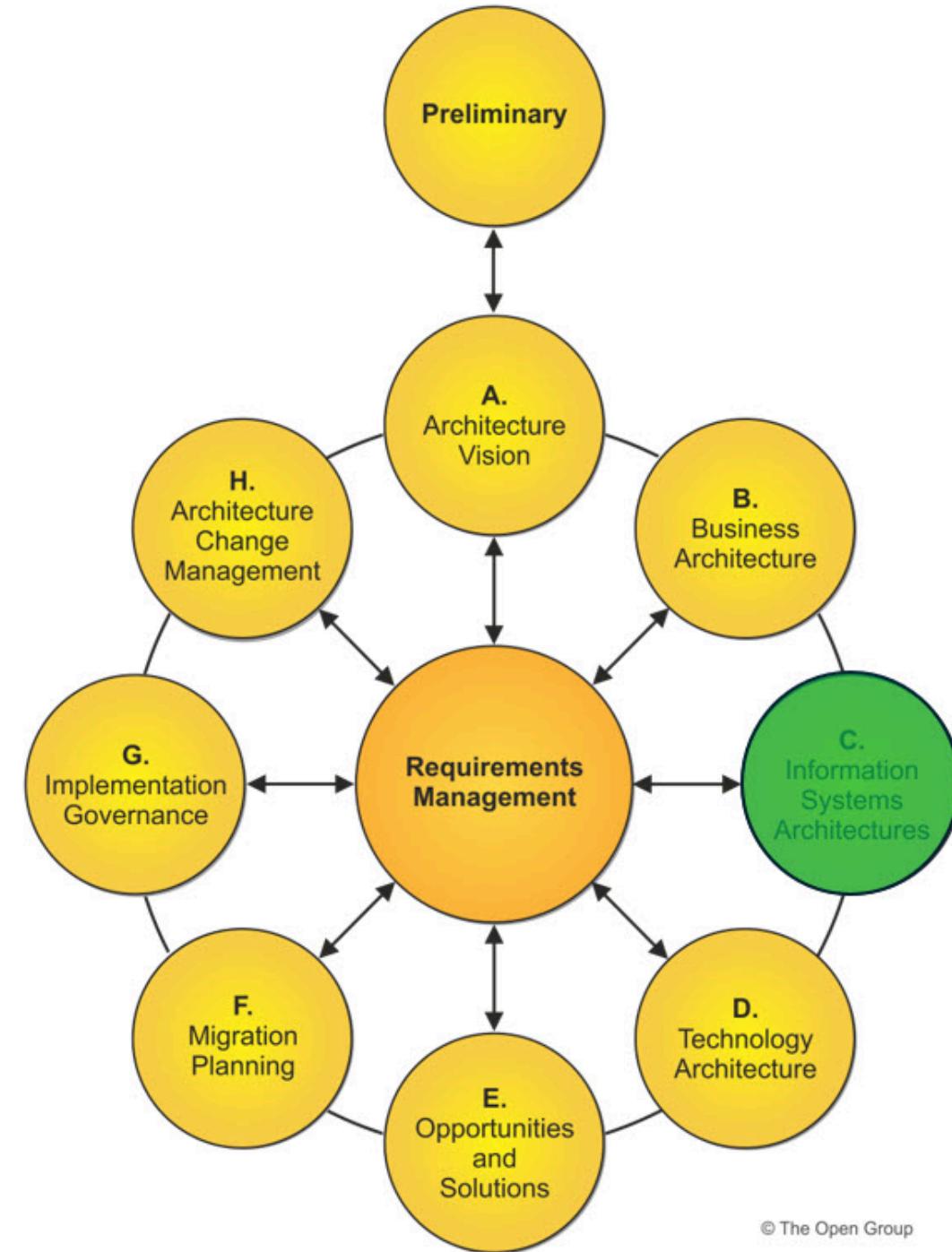
Information Systems Arkitektur



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- Data Arkitektur
- Applikations Arkitektur

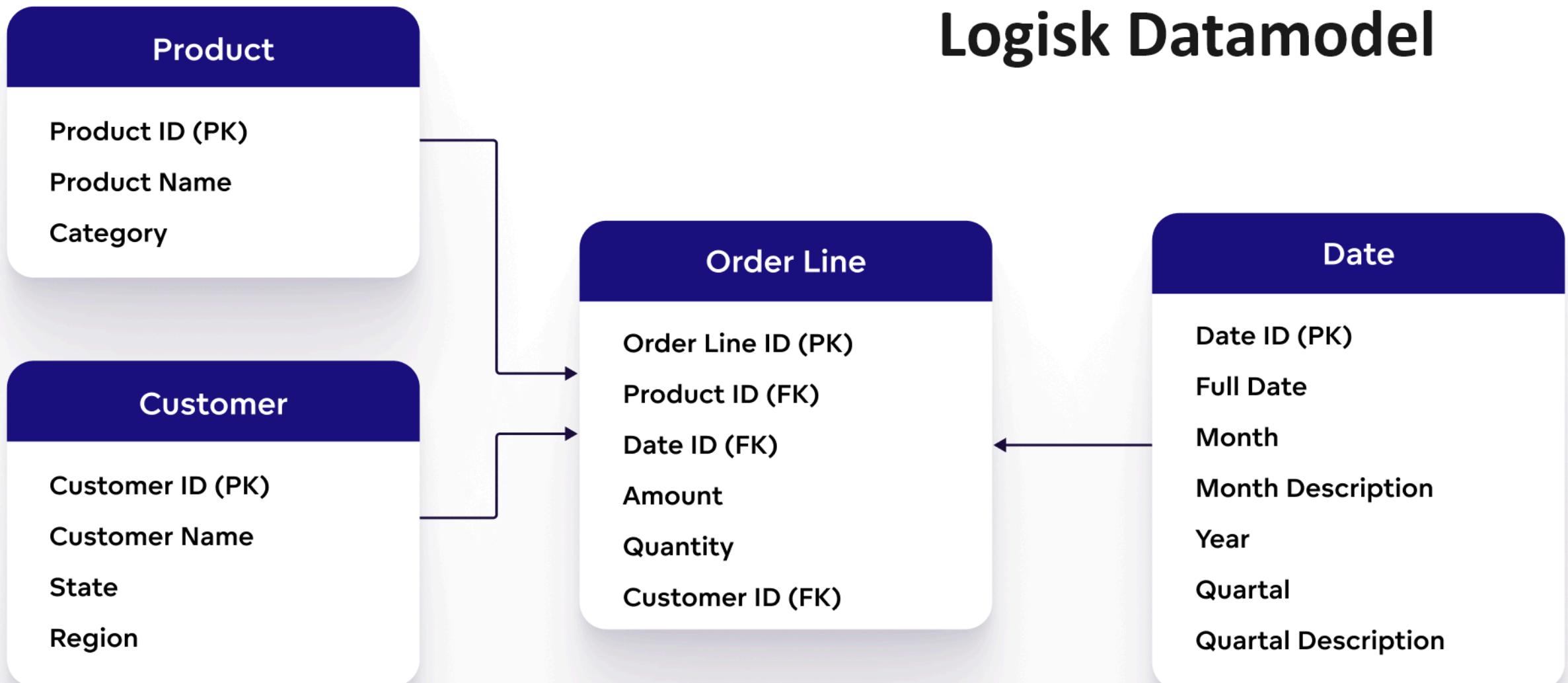
Typisk er det bedst at starte med Data og derefter Applikation arkitektur



Preliminary	Business Architecture	Data Architecture	Application Architecture	Technology Architecture																																
<p>Catalogs</p> <ul style="list-style-type: none"> Principles Catalog <p>Architecture Vision</p> <p>Catalogs</p> <ul style="list-style-type: none"> Stakeholder Catalog <p>Diagrams</p> <ul style="list-style-type: none"> Value Chain Diagram Solution Concept Diagram Business Model Diagram Business Capability Map Value Stream Map <p>Opportunities and Solutions</p> <p>Diagrams</p> <ul style="list-style-type: none"> Project Context Diagram Benefits Diagram <p>Requirements Management</p> <p>Catalogs</p> <ul style="list-style-type: none"> Requirements Catalog 	<p>Catalogs</p> <table border="1"> <tr> <td>Organization/Actor Catalog</td> <td>Contract/Measure Catalog</td> </tr> <tr> <td>Driver/Goal/Objective Catalog</td> <td>Business Capabilities Catalog</td> </tr> <tr> <td>Role Catalog</td> <td>Value Stream Catalog</td> </tr> <tr> <td>Business Service/Function Catalog</td> <td>Value Stream Stages Catalog</td> </tr> <tr> <td>Location Catalog</td> <td>Business Glossary Catalog</td> </tr> <tr> <td>Process/Event/Control Product Catalog</td> <td></td> </tr> </table> <p>Matrices</p> <table border="1"> <tr> <td>Business Interaction Matrix</td> <td>Strategy/Capability Matrix</td> </tr> <tr> <td>Actor/Role Matrix</td> <td>Capability/Organization Matrix</td> </tr> <tr> <td>Value Stream/Capability Matrix</td> <td></td> </tr> </table> <p>Diagrams</p> <table border="1"> <tr> <td>Business Footprint Diagram</td> <td>Process Flow Diagram</td> </tr> <tr> <td>Business Service/Information Diagram</td> <td>Business Event Diagram</td> </tr> <tr> <td>Functional Decomposition Diagram</td> <td>Business Capability Map</td> </tr> <tr> <td>Product Lifecycle Diagram</td> <td>Value Stream Map</td> </tr> <tr> <td>Goal/Objective/Business Service Diagram</td> <td>Organization Map</td> </tr> <tr> <td>Business Use-Case Diagram</td> <td>Information Map</td> </tr> <tr> <td>Organization Decomposition Diagram</td> <td></td> </tr> </table>	Organization/Actor Catalog	Contract/Measure Catalog	Driver/Goal/Objective Catalog	Business Capabilities Catalog	Role Catalog	Value Stream Catalog	Business Service/Function Catalog	Value Stream Stages Catalog	Location Catalog	Business Glossary Catalog	Process/Event/Control Product Catalog		Business Interaction Matrix	Strategy/Capability Matrix	Actor/Role Matrix	Capability/Organization Matrix	Value Stream/Capability Matrix		Business Footprint Diagram	Process Flow Diagram	Business Service/Information Diagram	Business Event Diagram	Functional Decomposition Diagram	Business Capability Map	Product Lifecycle Diagram	Value Stream Map	Goal/Objective/Business Service Diagram	Organization Map	Business Use-Case Diagram	Information Map	Organization Decomposition Diagram		<p>Catalogs</p> <ul style="list-style-type: none"> Data Entity/Data Component Catalog <p>Matrices</p> <ul style="list-style-type: none"> Data Entity/Business Function Matrix Application/Data Matrix <p>Diagrams</p> <ul style="list-style-type: none"> Conceptual Data Diagram Logical Data Diagram Data Dissemination Diagram Data Security Diagram Data Migration Diagram Data Lifecycle Diagram 	<p>Catalogs</p> <ul style="list-style-type: none"> Application Portfolio Catalog Interface Catalog <p>Matrices</p> <ul style="list-style-type: none"> Application/Organization Matrix Role/Application Matrix Application/Function Matrix Application Interaction Matrix <p>Diagrams</p> <ul style="list-style-type: none"> Application Communication Diagram Application and User Location Diagram Application Use-Case Diagram Enterprise Manageability Diagram Process/Application Realization Diagram Software Engineering Diagram Application Migration Diagram Software Distribution Diagram 	<p>Catalogs</p> <ul style="list-style-type: none"> Technology Standards Catalog Technology Portfolio Catalog <p>Matrices</p> <ul style="list-style-type: none"> Application/Technology Matrix <p>Diagrams</p> <ul style="list-style-type: none"> Environments and Locations Diagram Platform Decomposition Diagram Processing Diagram Networked Computing/Hardware Diagram Network and Communications Diagram
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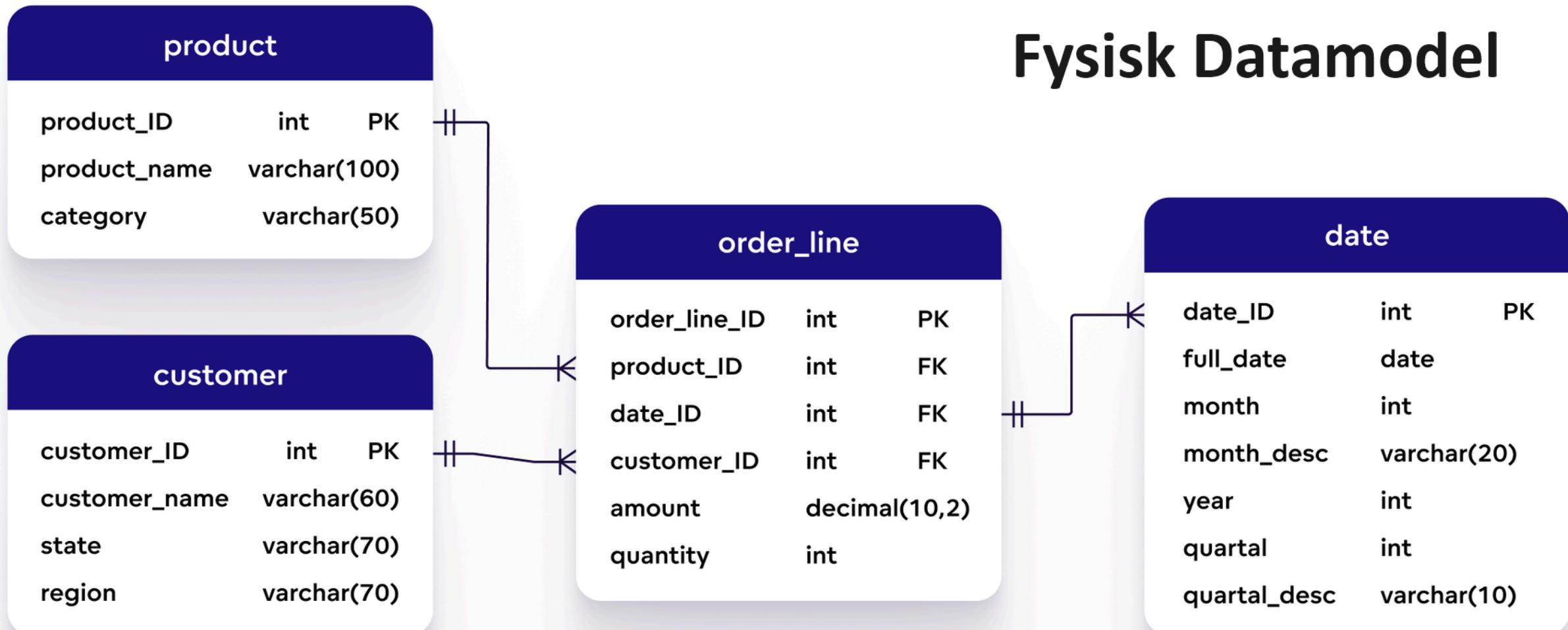
Data Arkitektur

Logisk Datamodell



PK - Primary key FK - Foreign key

Fysisk Datamodell



PK - Primary key FK - Foreign key
 int, decimal, varchar, date - data types

Applikations Arkitektur

Gap Analyse

En Gap-analyse er en metode, der bruges til at vurdere forskellen mellem en virksomheds **faktiske** præstation og dens **ønskede** præstation.



Gap processen involverer typisk tre hovedtrin

I hvert trin skal "beskrives" for Business, Data, Application og Technology.

1. **Definering af nuværende tilstand:** Fastlæg virksomhedens nuværende kapaciteter, ressourcer og processer - **AS-IS**
2. **Definering af ønsket tilstand:** Beskriv hvad virksomheden ønsker at opnå, inklusiv mål og objektiver for fremtiden - **TO-BE**
3. **Identificering af gaps:** Analyser forskellen mellem den nuværende og ønskede tilstand for at identificere områder, der kræver forbedring eller udvikling.

"Lukke" Gaps

Der vil typisk være flere måder at lukke Gaps på. Det er vigtig at der fortages en grundig analyse af fordele og ulemper ved hver af disse.

- **Big Bang** - Sluk det "gamle", Tænd det nye
- **Evolution** - Gradvis flytning, én applikation/service ad gangen
- **Komponentopdeling** - Opdel eksisterende applikationer i mindre, efterfulgt af Evolution
- **Co-eksistens** - Applikationer kører i både AS-IS og TO-BE udgaver indtil AS-IS kan lukkes ned

Læse

- <https://www.dataversity.net/conceptual-vs-logical-vs-physical-data-modeling/>
- <https://www.gooddata.com/blog/physical-vs-logical-data-model>
- <https://online.visual-paradigm.com/knowledge/visual-modeling/conceptual-vs-logical-vs-physical-data-model>
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