

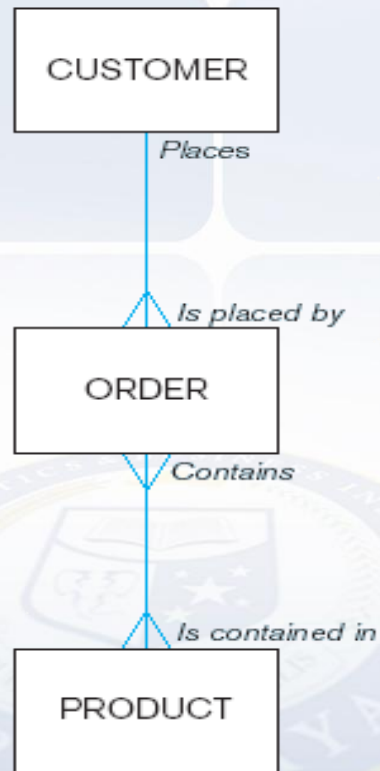
Suplemen Materi
Entity Relationship Diagram



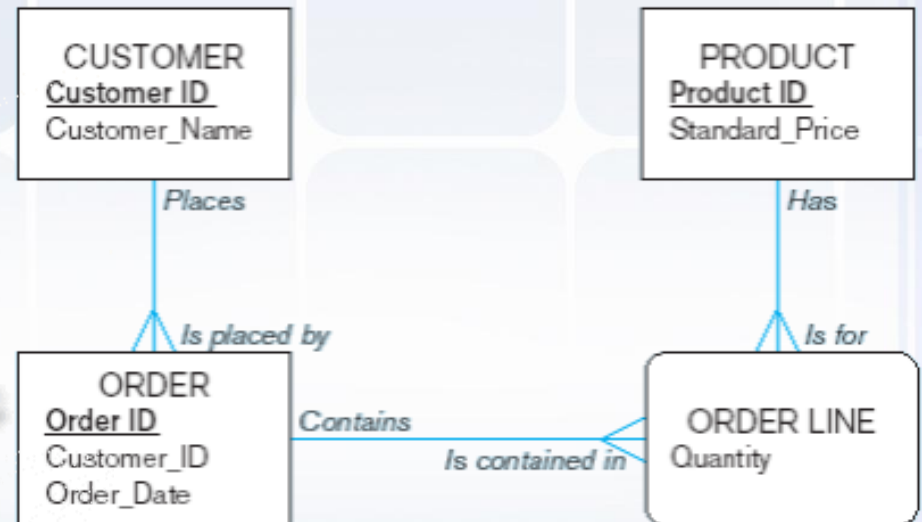
Dr. Sutedi, S.Kom., M.T.I

Sudut Pandang Dalam Memodelkan Data

Enterprise Data Model



Project-Level Data Model



Model *Entity-Relationship*

Entitas

- ✓ Memiliki beberapa *instance*
- ✓ Memiliki beberapa *attribute*.
- ✓ Relevan

Tipe entitas



Instance entitas



Model *Entity-Relationship*

Strong Entity

- ✓ Eksistensinya tidak tergantung pada entitas-entitas lain.
- ✓ Memiliki *identifier* sendiri.

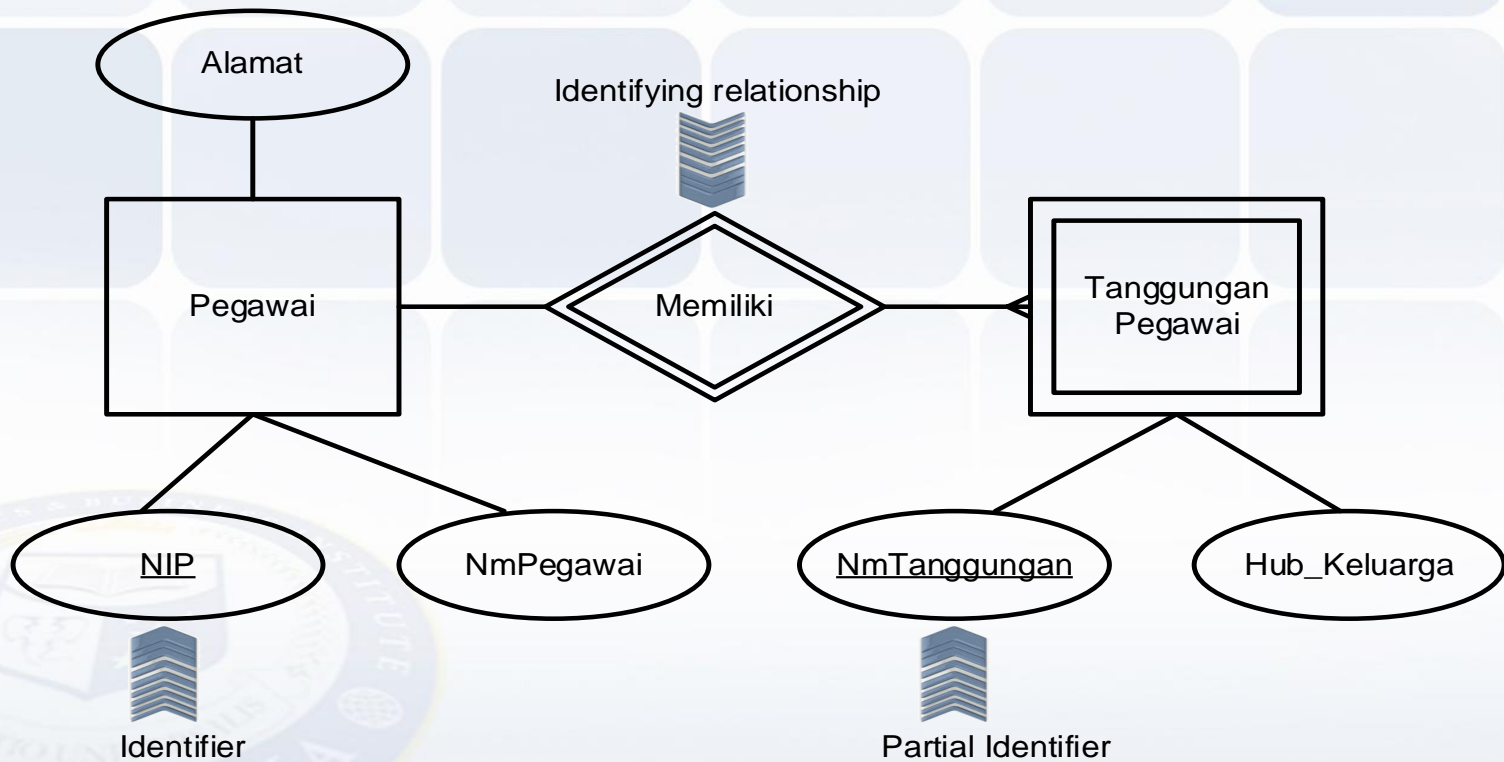
Weak Entity

- ✓ Eksistensinya tergantung dari suatu entitas kuat.
- ✓ Tidak memiliki *identifier* sendiri.

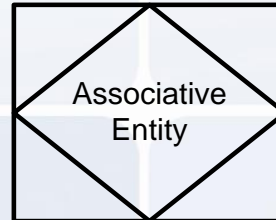


Model *Entity-Relationship*

Contoh *Strong Entity* dan *Weak Entity*:



Model *Entity-Relationship*

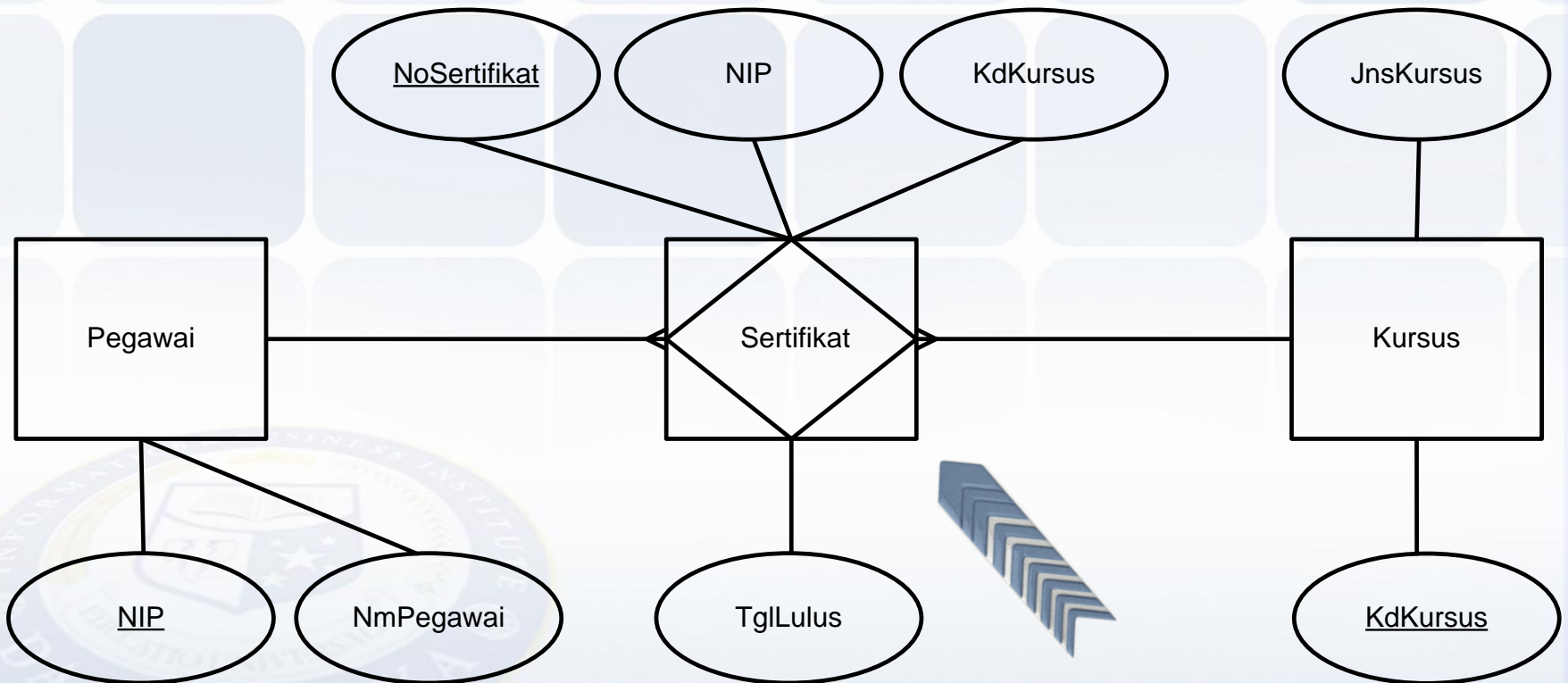


- ✓ Entitas yang menghubungkan dua entitas dan memiliki beberapa *attribute*.
- ✓ Memiliki *identifier* khusus



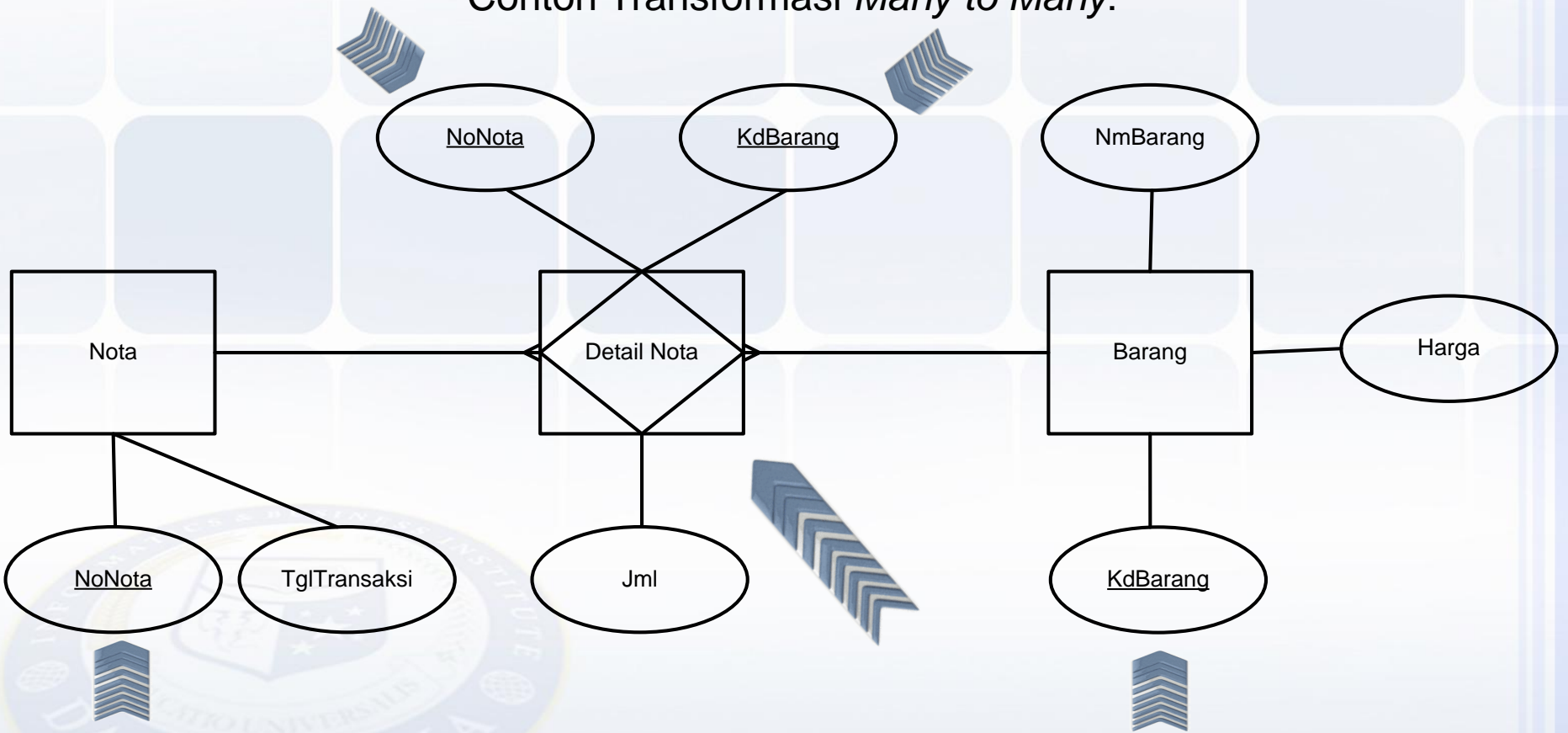
Model *Entity-Relationship*

Contoh *Associative Entity* :



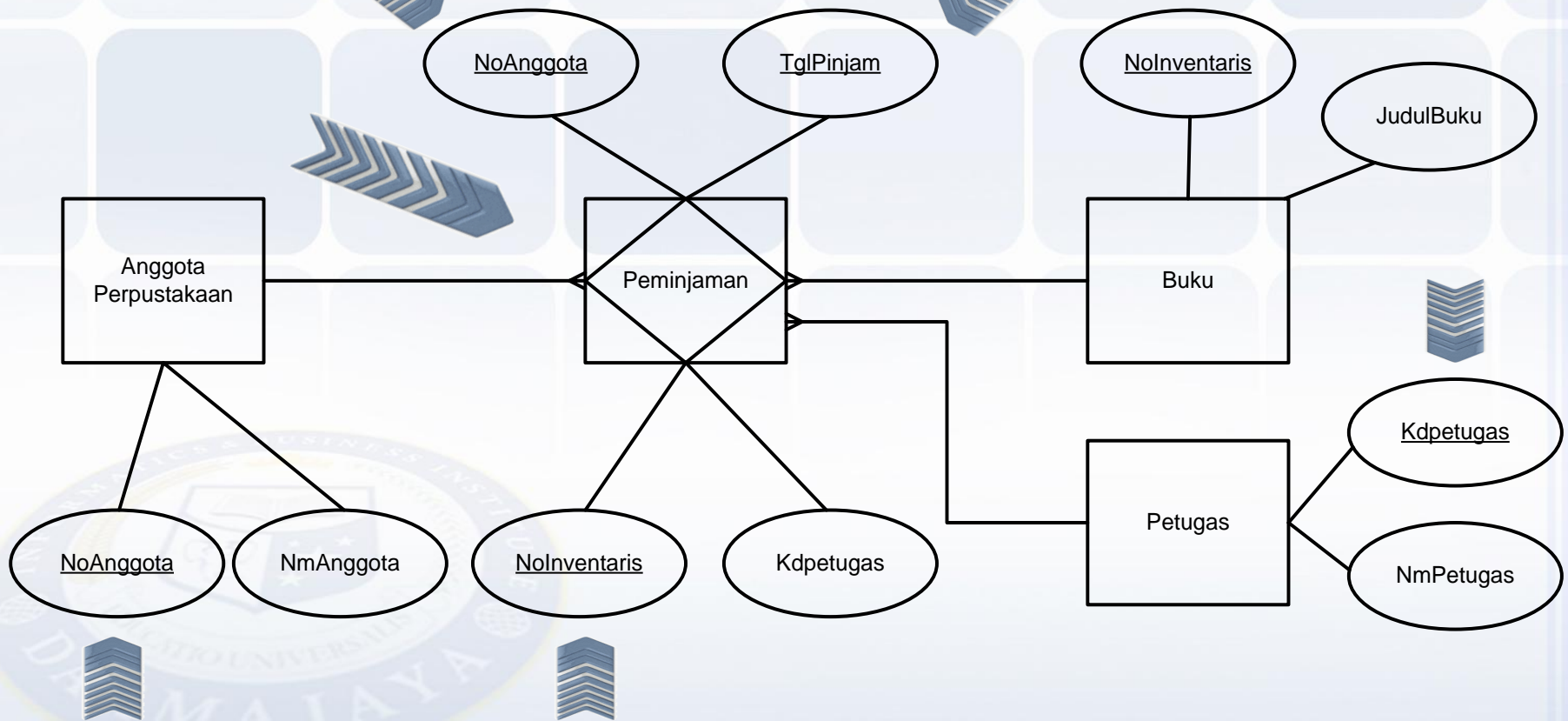
Model *Entity-Relationship*

Contoh Transformasi *Many to Many*:



Model *Entity-Relationship*

Contoh Transformasi *Ternary Degree*:



Model *Entity-Relationship*

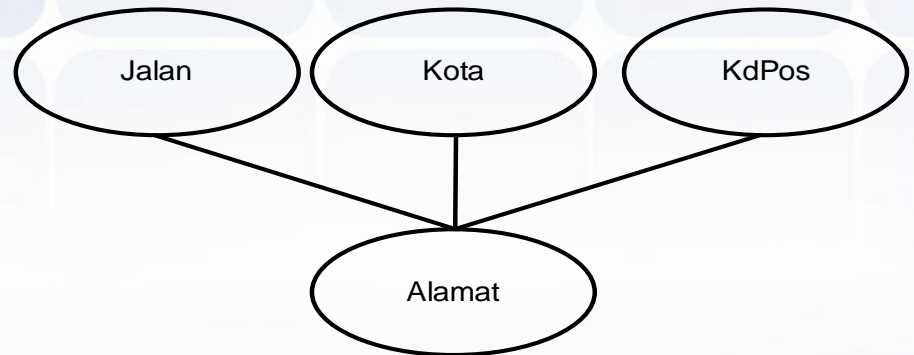
Atribut

Sederhana

Komposit



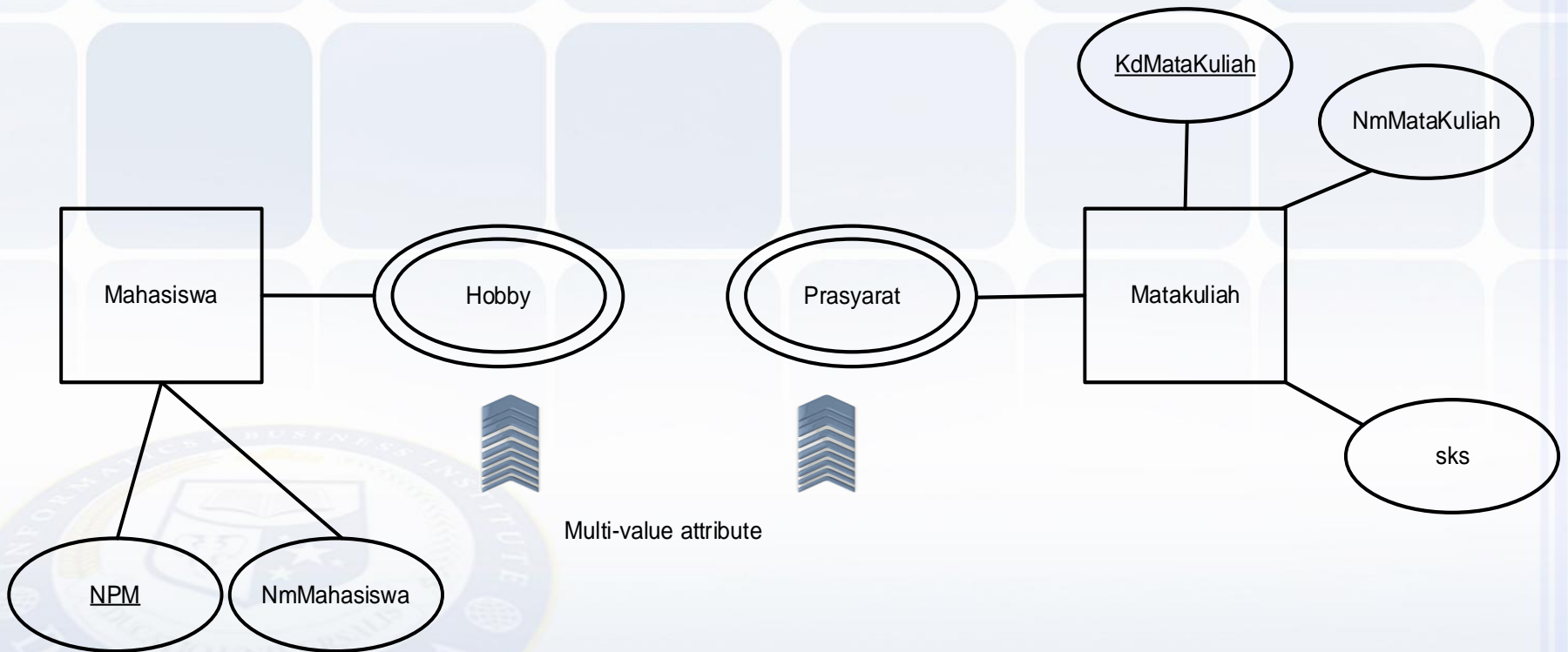
Atribut sederhana



Atribut komposit

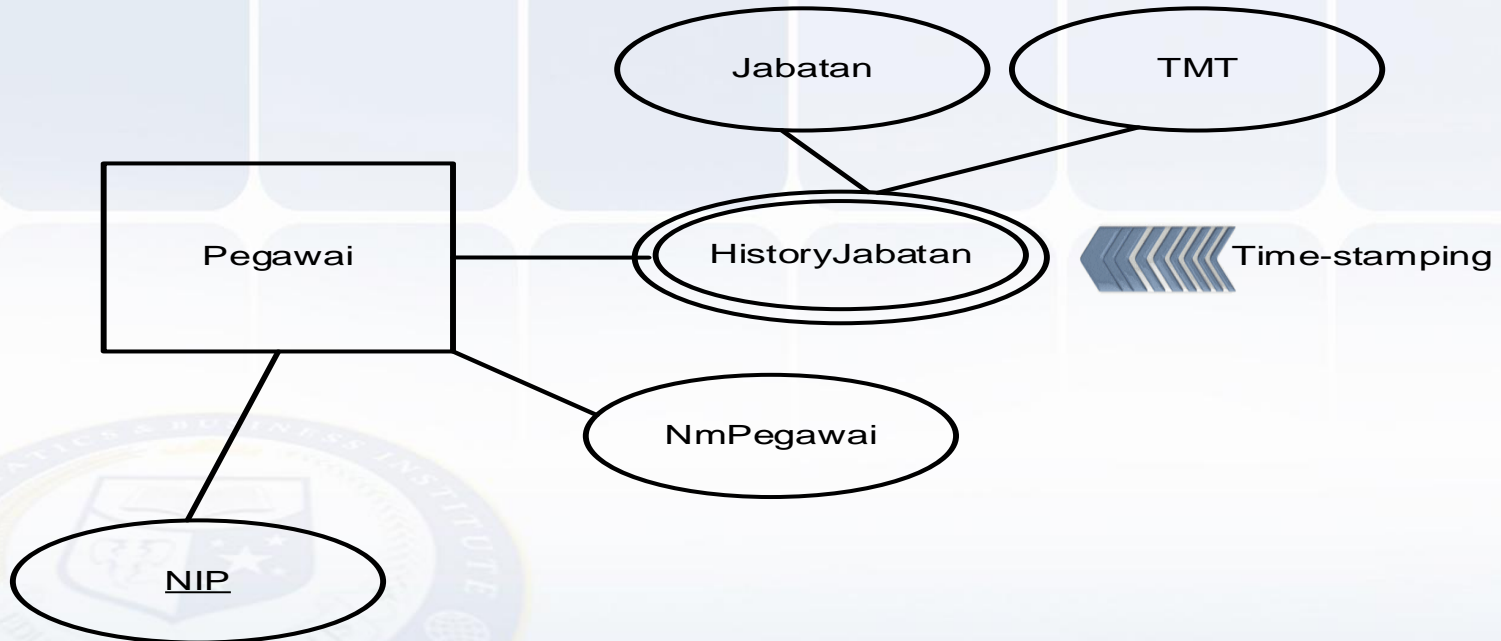
Model *Entity-Relationship*

Atribut *Multi-Value*



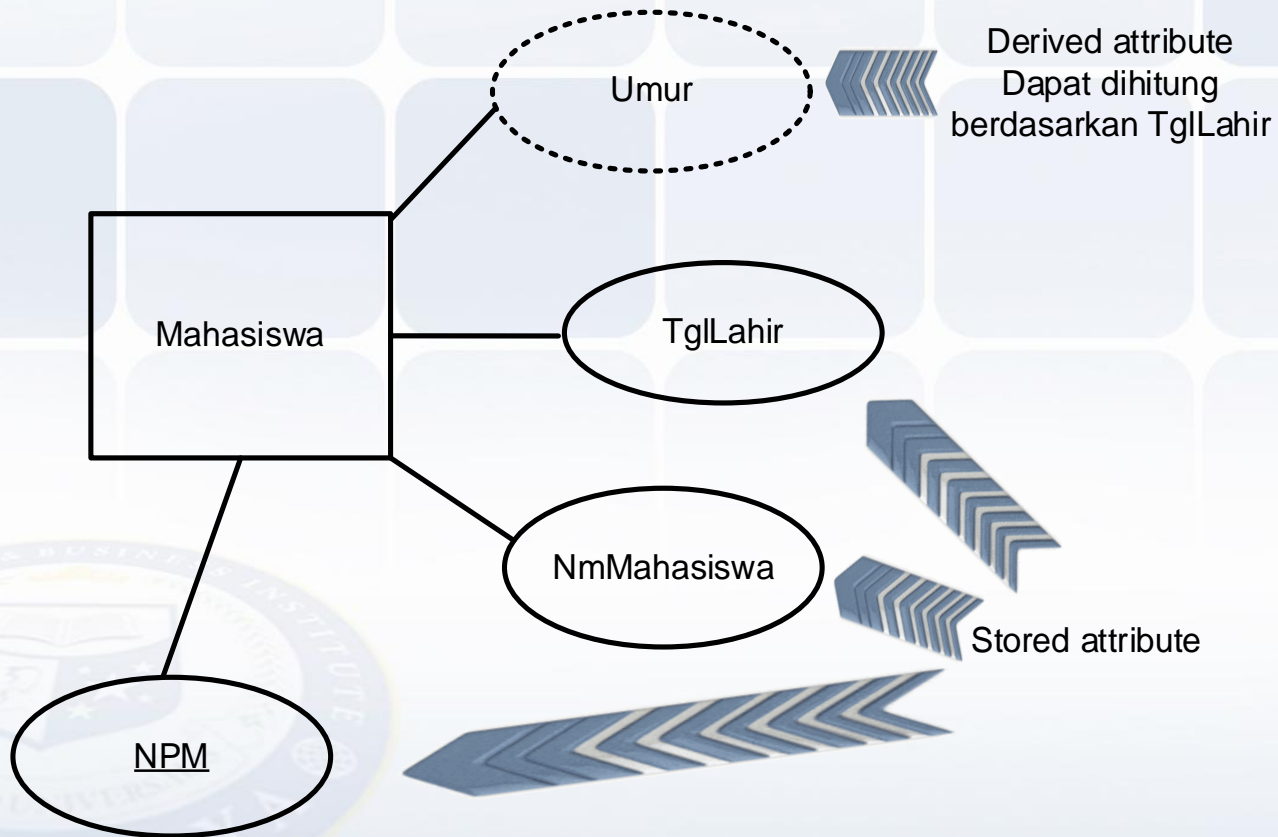
Model *Entity-Relationship*

Atribut Komposit dan *Multi-Value*



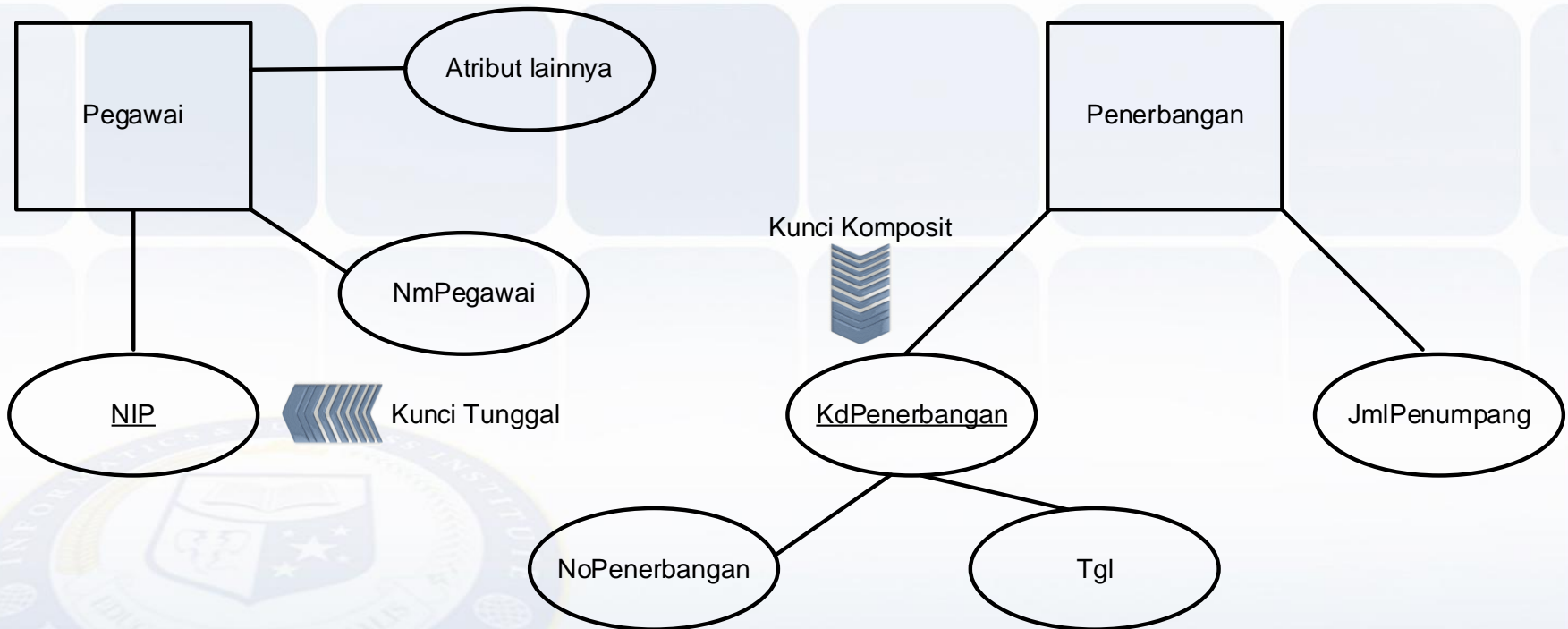
Model *Entity-Relationship*

Stored Attribute dan Derived Attribute



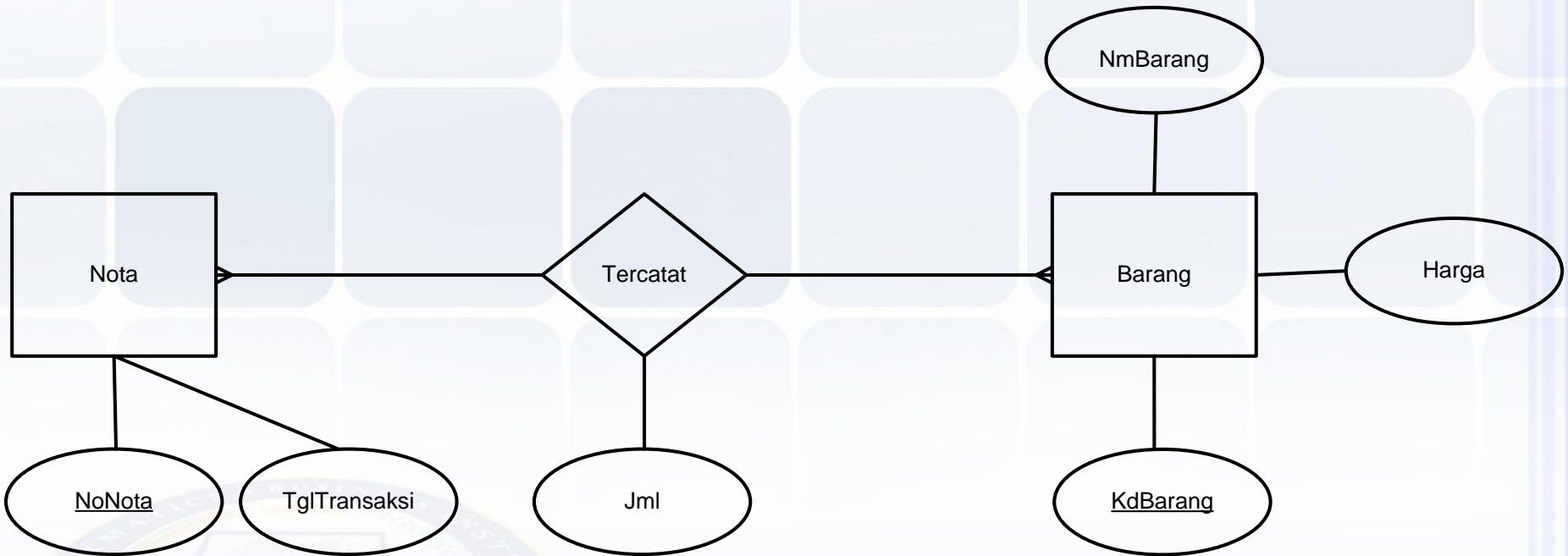
Model *Entity-Relationship*

Atribut Kunci Tunggal dan Kunci Komposit



Model *Entity-Relationship*

Atribut Relasional




atribut relasional

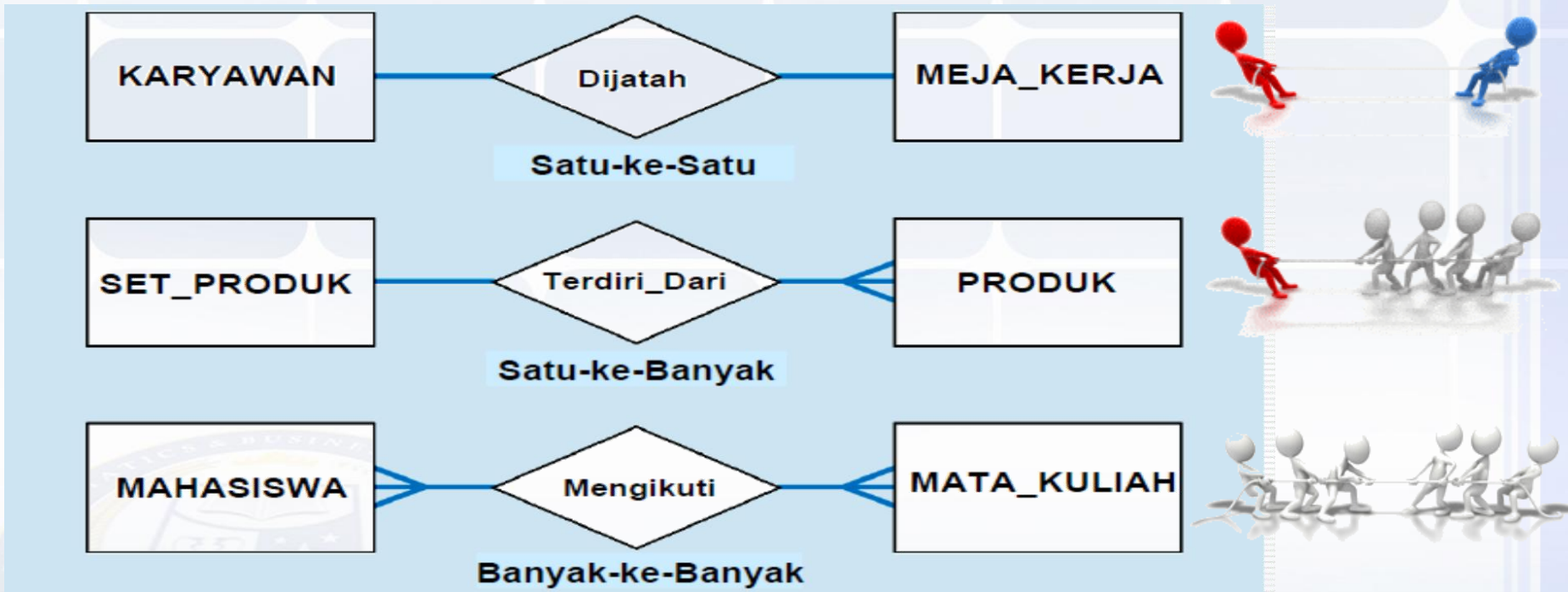
Model *Entity-Relationship*

Derajat Relasional



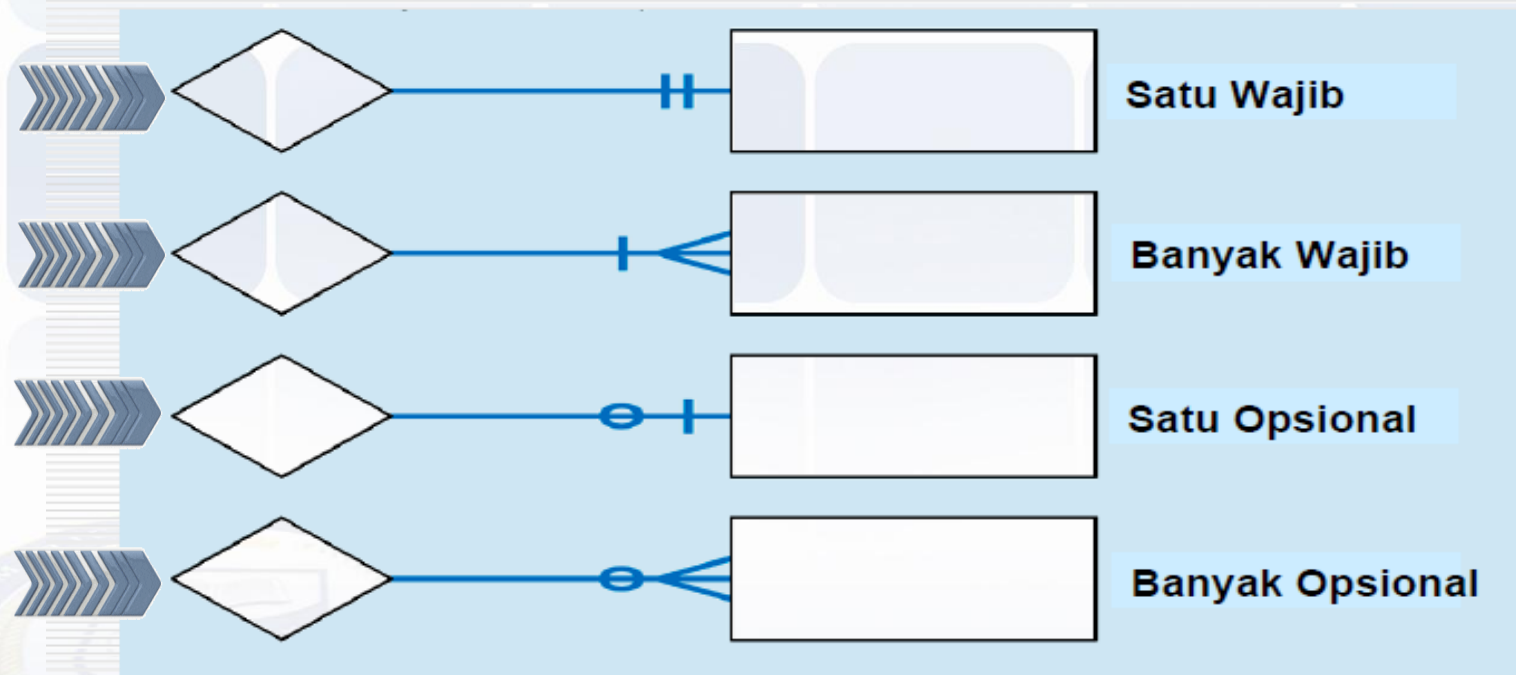
Model *Entity-Relationship*

Kardinalitas Relasional



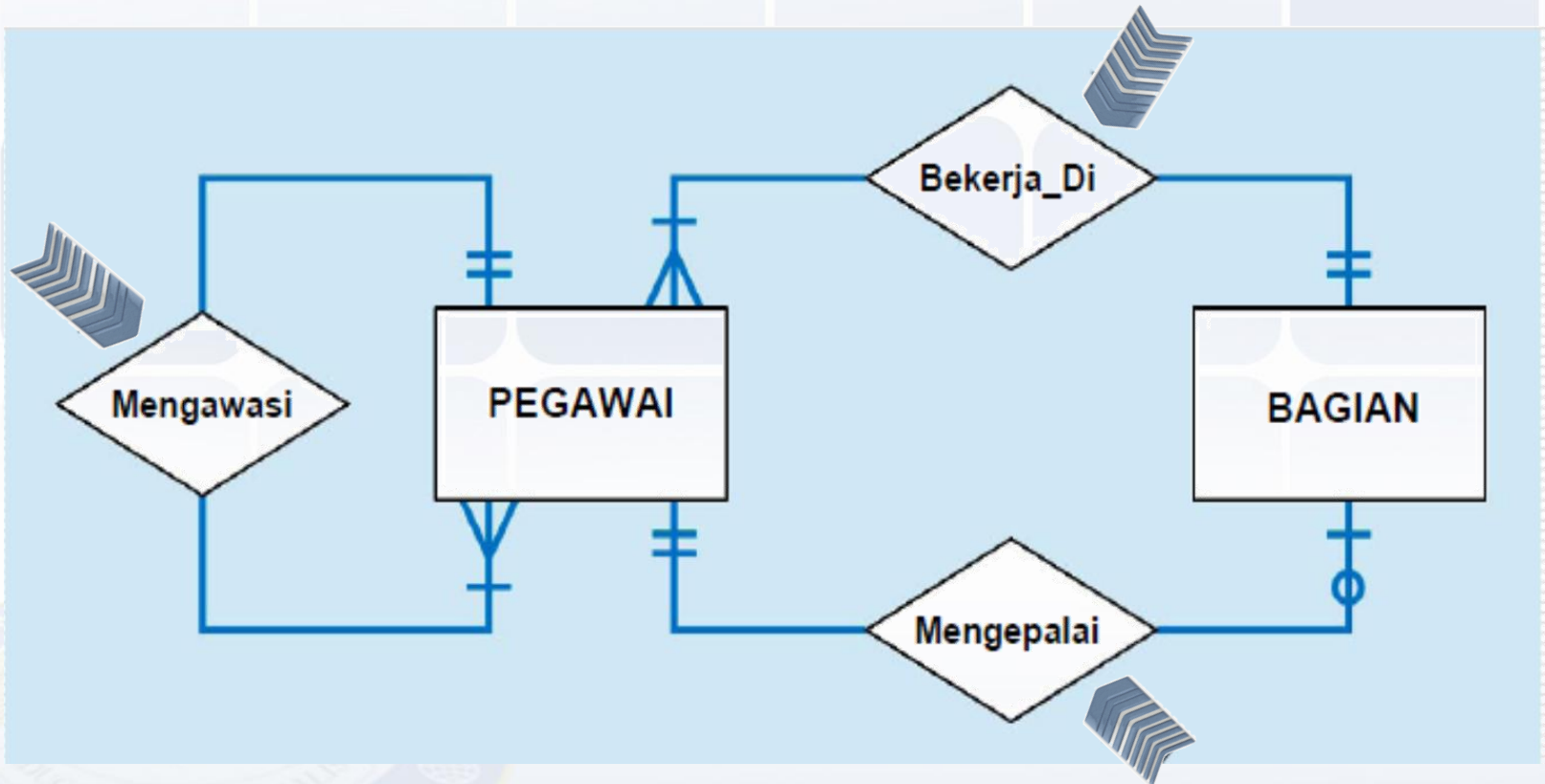
Model *Entity-Relationship*

Notasi Konstrain Relasional



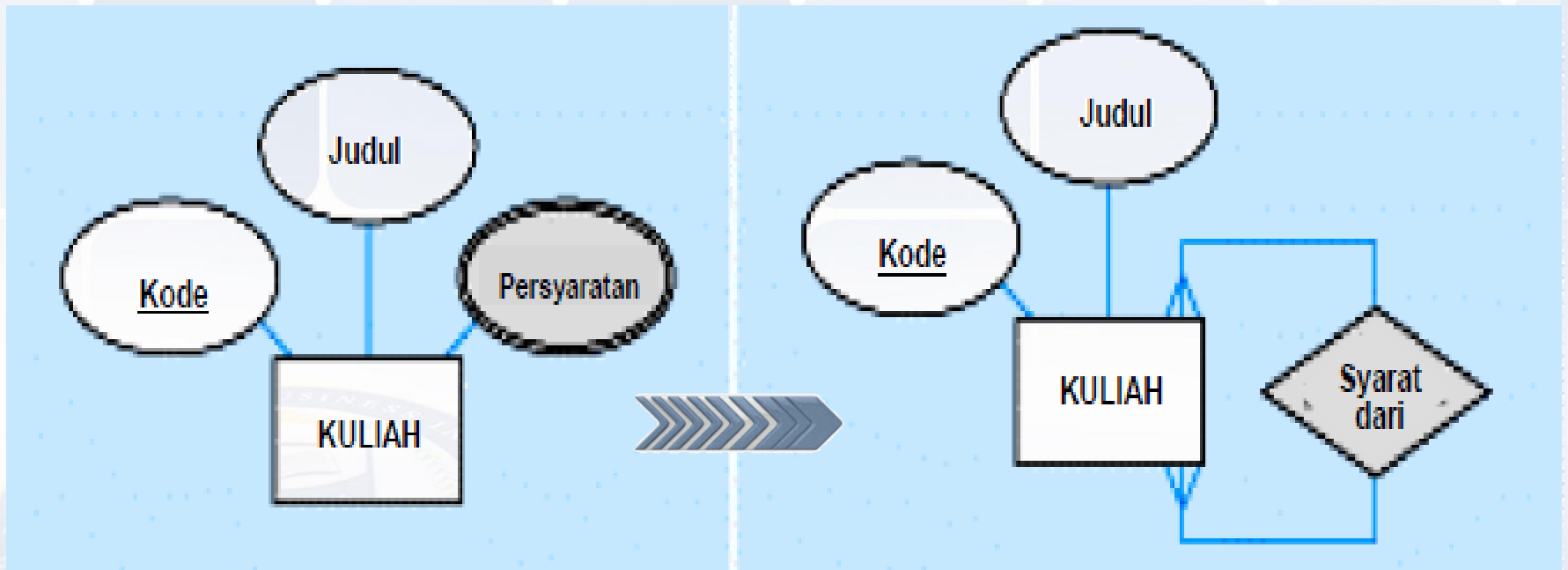
Model *Entity-Relationship*

Relasional Majemuk



Model *Entity-Relationship*

Transformasi Atribut *Multivalued* ke Relasional



THANK YOU

Sampai jumpa di sesi berikutnya

