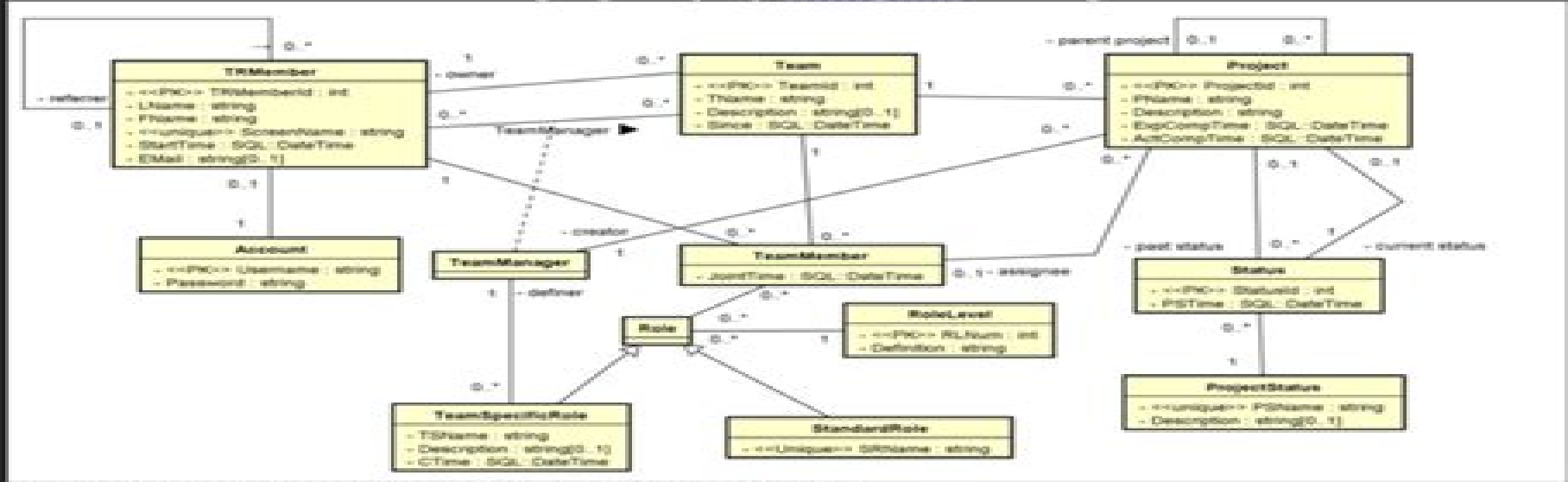


UML Candidate Model to Relational Logical Model

- (1) Using the UML solution below and the following specifications, construct the relation schema to implement the UML diagram. For each relation, underline the PK and list:
1. all candidate keys: e.g. [1] FacultyId, [2] {FirstName, LastName, DepartmentNumber}
 2. all foreign key references: e.g. [1] ChairFacultyId references Faculty[FacultyId], [2] StudentId references Student[StudentId]
 3. Attributes known for sure that can be null [i.e. Nullable]: e.g. [1] MiddleInitial, [2] Phone
 4. Notes: such as the creation of surrogate primary key, assumptions and design issues.



You may have a different number of tables. Adjust accordingly.
The relation schema (replace the example tables Author, and so on):

1	Author (<u>AuthorId</u> , ..., <u>MemberId</u>): The actual relation should replace Author.
Candidate Keys	[1] <u>Table1_Id</u> , [2] <u>col_1</u> , <u>col_4</u>
Foreign Keys	[1] <u>MemberId</u> references <u>Member(MemberId)</u>
Nullable Attributes	<u>MemberId</u>
Non-nullable Attributes	<u>AuthorId</u> , <u>AuthorLName</u> , ...
Notes	[1] <u>AuthorId</u> is created as the surrogate primary key.
2	And so on...
Candidate Keys	
Foreign Keys	
Nullable Attributes	
Non-nullable Attributes	
Notes	[1] You may copy, paste, or delete to adjust for the right number of relations.
3	
Candidate Keys	
Foreign Keys	
Nullable Attributes	
Non-nullable Attributes	
Notes	
4...	
Candidate Keys	

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**Andreas Knopfel, Bernhard
Grone, Peter Tabeling**



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