**A short descript of company**

This an editor department of a periodical office. The staff includes editors and journalists. Journalists respond article and editor in charge of plates.

**Reasons why the company need a database**

To better manage the employees, the editor department needs a database. Through this database, employees are easily informed about their tasks. And chief editor can better oversee employees’ work.

**Detailed business requirements (business rules)**

A journalist can’t respond over two articles. An article can’t be responded by more than two journalists.

An editor only in charge of one plate. But one plate could may responded by tow editors.

Employees include journalists and editors.

An employee may have many performance evaluation records. But one performance evaluation record must belong to only one employee.

A plate at least should have one article. One article should only be published in one plate.

**Detailed explanation of each business rule**

The relationship between Journalist and Article: M:N

A journalist can respond 0-2 articles. An article also can be responded by 1-2 journalists. Due to it’s many to many relationship, we need to transform them to tow one to many relationships. The relationship will be strong. The relationship is optional in both sides. The cardinality on article side would be (0,2), on another side would be (1,2).

The relationship between Editor and Plate: 1:M

An editor only should in charge of one plate. And one plate could be responded by 1-2 editors. It’s a weak relationship as journalists are not depend on performance evaluation. The relationship is optional on many side and mandatory on the “one” side. The cardinality on the many side is (1, N), on the one side is (1,1).

The relationship between Employee and Performance evaluations: 1:M

An employee may have 0-M performance evaluations, but an evaluation record only can belong to one employee. It’s a weak relationship as employee are not depend on performance evaluation. The relationship is optional on “many” side and mandatory on the “one” side. The cardinality on the many side is (0, N), on the one side is (1,1).

The relationship between Plate and Article: 1:M

One plate may publish 1-M Articles, but one article only could be published on one plate. It’s a weak relationship as article are not depend on the plate. The relationship is optional on many side and mandatory on the “one” side. The cardinality on the many side is (1, N), on the one side is (1,1).

**The EER**

