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To: DevinDickens@ITConsulting.com

CC:

Subject: TemporalPayRoll Database Normalization Process Explanation

Hi Devin,

This is Elbio Iseas from the IT Department and I will explain in this email the normalization process of the TemporalPayRoll database. The TemporalPayRoll database is part of the Online Transaction Processing (OLTP). As any database the normalization process ensures that there is no data redundancy in the database. Between some of the benefits of normalization are:

* faster access to the information,
* saving in storage space, and
* it makes an easier database administration.

The normalization process consists of several forms or stages of the database. This email will address the first three normal forms:

**The 1st normal form**

* In this stage the table cannot have repeated groups or columns.
* Columns will have only one value.
* Each row will be unique.
* All attributes will depend on the primary key (the column value or group of columns that build the primary key which uniquely identify the row).

**The 2nd normal form**

* The table needs to be in the 1st normal form.
* There is no partial key dependency. This means that there will be no prime key attached to a non prime key of a compound key.

**The 3rd normal form**

* No transitive dependency will be allowed. This means that if there is transitive dependency in the row it has to be broken in as many relations as it requires.