

Claims 1 - 14
[1.1.a] A computer-implemented method of creating a process protocol in a local computer system (LC), which comprises a processor and a storage device, wherein the process protocol encodes object related activities and is created from raw data, which is stored in part in a first external computer system (EC1) and in part in a second external computer system (EC2),
[1.1.b] wherein the raw data in the external computer systems is stored in a number of data tables,
[1.1.c] wherein the raw data comprises data, which is created during the execution of processes in the first external computer system and in the second external computer system,
[1.1.d] wherein a process comprises several process steps, wherein each process step creates the data during execution, and wherein the method comprises:
[1.2] (a) importing the data tables from the first external computer system and from the second external computer system into the local computer system, and storing the imported data tables in the storing device of the local computer system,
[1.3] (b) in the local computer system, determining and reconstructing the relationships between the imported data tables,
[1.4] (c) in the local computer system, determining and selecting a first data table from the number of imported data tables, wherein each data record stored in the first data table represents an object for which the process protocol is to be created,
[1.5] (d) in the local computer system, determining and selecting a number of second data tables from the number of imported data tables, which are necessary for the creation of the process protocol, based on the selected first data table and based on the reconstructed relationships between the imported data tables, wherein each data record stored in the number of second data tables represents a process step,
[1.6] (e) in the local computer system, determining activities for the objects of the selected first data table based on the selected second data tables and the reconstructed relationships between the selected first data table and the selected second data tables,
[1.7] (f) in the local computer system, creating an executable transformation, which based on [i] the selected first data table, [ii] the selected second data tables, and [iii] the relationships between the selected first data table and the selected second data tables, [iv] is adapted to extract data from the first data table and from the second data tables based on the determined activities, and to store the extracted data as process protocol, and
[1.8] (g) in the local computer system, executing the transformation, wherein during execution of the transformation the data is extracted from the data tables

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stored in the external computer systems (ES1, ES2), and storing the extracted data as process protocol, and providing the created process protocol to a Process Mining System for analysis and reconstruction of the processes carried out in the first external computer system and in the second external computer system.
[2] The method of claim 1, wherein at least one of the selected data tables is imported from the first external computer system (ES1), and at least one of the selected data tables is imported from the second external computer system (ES2).
[3] The method of claim 1, wherein during reconstructing of the relationships between the imported data tables in the step (b), it is determined via which attributes the data tables are related to each other.
[4] The method of claim 3, wherein two data tables are related to each other, if an attribute of the one data table is identical or similar to an attribute of the other data table.
[5] The method of claim 1, wherein the relationships reconstructed between two imported data tables are stored, wherein the names of the two data tables, the respective attributes, and an assignment of the attributes of the one data table to the attributes of the other data table are stored.
[6] The method of claim 1, wherein a first data model belonging to the data tables imported from the first external computer system (EC1) is imported from the first external computer system into the local computer system, wherein the relationships between the data tables imported from the first external computer system (EC1) are reconstructed based on the first data model, a second data model belonging to the data tables imported from the second external computer system (EC2) is imported from the second external computer system into the local computer system, wherein the relationships between the data tables imported from the second external computer system (EC2) are reconstructed based on the second data model, such that only the relationships between the data tables from the first external computer system and the data tables from the second external computer system have to be reconstructed without the use of a data model.
[7] The method of claim 1, wherein during determining and selecting of a first data table in the step (c), it is determined, which data table meets one or more conditions, wherein the conditions are selected from a group, consisting of the data table comprises less data sets compared to the other data tables, the data table comprises an attribute, in which the time stamps are stored, the data table is referenced by a few other data tables, and combinations thereof.
[8] The method of claim 7, wherein information with respect to the selected first data table is stored.

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[9] The method of claim 1, wherein during determining and selecting of the number of second data tables in the step (d) those data tables are selected, which meet one or more conditions, wherein the conditions are selected from the group, consisting of the data tables comprise many data sets compared to the first data table, the data table is referenced directly or indirectly by the first data table, the data tables respectively comprise an attribute, in which the time stamps are stored, and combinations thereof.
[10] The method of claim 9, wherein information with respect to the selected second data tables and with respect to the relationships between the selected second data tables and the first data table are stored.
[11] The method of claim 1, wherein during creating of the executable transformation in the step (f) it is determined, which attributes of the selected first data table and of the selected second data tables are considered during extracting of the data.
[12] The method of claim 11, wherein during executing of the transformation in the step (g) data sets are read out from the first data table and from the second data tables, wherein the data sets, which have been read out, comprise the attribute values of the attributes determined for the respective data table, wherein the data sets, which have been read out, are stored as process protocol, wherein each data set stored in the process protocol represents a process step (Event) of a process executed in the first external computer system and in the second external computer system.
[13] The method of claim 12, wherein the data sets, which have been read out, are stored according to a predetermined data structure in the process protocol, wherein the predetermined data structure comprises at least: a first attribute, in which a first unique identifier of the process of the respective process step is stored, a second attribute, in which an identifier of the respective process step is stored; and a third attribute, in which a sequence of the process steps within a process is stored.
[14] The method of claim 13, wherein the attribute values of the attributes of the process protocol are determined from the attribute values of the data sets, which have been read out, and/or the table names and/or column names of the selected first data table and/or the selected second data tables.