

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
THOMAS GROSS-BOELTING	07/14/2016
MICHAEL MUELLER	07/14/2016
ARMIN WEIDENSCHLAGER	07/14/2016
ANTON FORSTREUTER	07/14/2016
XIAOMENG WANG	07/15/2016
FLORIAN ROEGER	07/14/2016
JORDAN TCHORBADJIYSKI	07/14/2016
RUADHAN MACFADDEN	07/14/2016
FRANK FEIKS	07/14/2016
RECEIVING PARTY DATA	
Name:	SAP SE
Street Address:	DIETMAR-HOPP-ALLEE 16
City:	WALLDORF
State/Country:	GERMANY
Postal Code:	D-69190
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15211817
CORRESPONDENCE DATA	
Fax Number:	(503)595-5301
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	503-595-5300
Email:	Ryan.Heck@klarquist.com
Correspondent Name:	RYAN A. HECK, PH.D., C/O KLARQUIST SPARKMAN, LLP
Address Line 1:	121 SW SALMON STREET
Address Line 2:	SUITE 1600
Address Line 4:	PORTLAND, OREGON 97204
ATTORNEY DOCKET NUMBER:	8880-96851-01
NAME OF SUBMITTER:	RYAN A. HECK, PH.D.

PATENT

SIGNATURE:	/Ryan A. Heck, Reg. No. 51,795/
DATE SIGNED:	07/18/2016
Total Attachments: 9 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif	

ASSIGNMENT

I, Frank Feiks ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):



U.S. Patent Application entitled QUERY PROCESSING USING PRIMARY DATA
VERSIONING AND SECONDARY DATA, having U.S. Patent Application
No. 15/211,817, filed on July 15, 2016;

ASSIGNOR hereby authorizes and requests ASSIGNEE'S legal representatives of Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, OR 97204 USA, who are associated with customer number 106592, to insert the application number(s) and filing date(s) above when known;

SAP SE, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany, a company organized under the laws of the country of Germany, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to and is desirous of acquiring the entire and exclusive rights, title, and interest in the INVENTION, the APPLICATIONS, and all other applications and patents derived therefrom, such as continuing applications, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES");

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns, and transfers to the ASSIGNEE, the entire and exclusive rights, title, and interest in the INVENTION, the APPLICATIONS, and APPLICATION DERIVATIVES, including foreign priority rights;

ASSIGNOR agrees to sign any documents required for the prosecution of the APPLICATIONS and APPLICATION DERIVATIVES, for litigation regarding letters patent derived therefrom, and for protecting and perfecting title to the APPLICATIONS and APPLICATION DERIVATIVES.

	<u>July 16, 2016</u>
Inventor's Signature Frank Feiks	Date Signed
	<u>14.07.2016</u>
Witness Signature	Date Signed
<u>JORDAN TCHOBANAJYSKI</u>	
Witness Name (print)	

ASSIGNMENT

I, Thomas Gross-Boelting ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):



U.S. Patent Application entitled QUERY PROCESSING USING PRIMARY DATA
VERSIONING AND SECONDARY DATA, having U.S. Patent Application
No. 15/211,817, filed on July 15, 2016;

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DERIVATIVES, including foreign priority rights;

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APPLICATIONS and APPLICATION DERIVATIVES, for litigation regarding letters patent derived
therefrom, and for protecting and perfecting title to the APPLICATIONS and APPLICATION
DERIVATIVES.

	<u>14.7.16</u>
Inventor's Signature Thomas Gross-Boelting	Date Signed
	<u>16.07.16</u>
Witness Signature	Date Signed
<u>Widenschnager</u>	
Witness Name (print)	

ASSIGNMENT

I, Michael Mueller ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):

U.S. Patent Application entitled QUERY PROCESSING USING PRIMARY DATA
VERSIONING AND SECONDARY DATA, having U.S. Patent Application
No. 15/211,817, filed on July 15, 2016;

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APPLICATIONS and APPLICATION DERIVATIVES, for litigation regarding letters patent derived
therefrom, and for protecting and perfecting title to the APPLICATIONS and APPLICATION
DERIVATIVES.

<u>Michael Mueller</u> Inventor's Signature Michael Mueller	<u>2016-07-14</u> Date Signed
<u>RAE R</u> Witness Signature	<u>14.07.2016</u> Date Signed
<u>Anton Fiedler</u> Witness Name (print)	

ASSIGNMENT

I, Armin Weidenschlager ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):

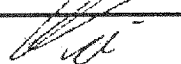
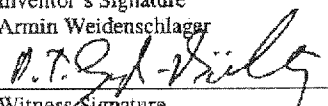
U.S. Patent Application entitled QUERY PROCESSING USING PRIMARY DATA
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therefrom, and for protecting and perfecting title to the APPLICATIONS and APPLICATION
DERIVATIVES.

 _____ Inventor's Signature Armin Weidenschlager	<u>14.07.16</u> _____ Date Signed
 _____ Witness Signature	<u>14.7.16</u> _____ Date Signed
<u>D.T. Gross-Boeltling</u> _____ Witness Name (print)	

ASSIGNMENT

I, Anton Forstreuter ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):


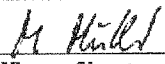
U.S. Patent Application entitled **QUERY PROCESSING USING PRIMARY DATA
VERSIONING AND SECONDARY DATA**, having U.S. Patent Application
No. 15/211,817, filed on July 15, 2016;

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with customer number 106592, to insert the application number(s) and filing date(s) above when
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therefrom, and for protecting and perfecting title to the APPLICATIONS and APPLICATION
DERIVATIVES.

<u></u> Inventor's Signature Anton Forstreuter	<u>14.07.2016</u> Date Signed
<u></u> Witness Signature	<u>2016-07-14</u> Date Signed
<u>MICHAEL MUELLER</u> Witness Name (print)	

ASSIGNMENT

I, Xiaomeng Wang ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):

U.S. Patent Application entitled QUERY PROCESSING USING PRIMARY DATA
VERSIONING AND SECONDARY DATA, having U.S. Patent Application
No. 15/211,817, filed on July 15, 2016;

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Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, OR 97204 USA, who are associated
with customer number 106592, to insert the application number(s) and filing date(s) above when
known;

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ASSIGNOR agrees to sign any documents required for the prosecution of the
APPLICATIONS and APPLICATION DERIVATIVES, for litigation regarding letters patent derived
therefrom, and for protecting and perfecting title to the APPLICATIONS and APPLICATION
DERIVATIVES.

<u>Xiaomeng Wang</u> Inventor's Signature Xiaomeng Wang	<u>07/15/2016</u> Date Signed
<u>[Signature]</u> Witness Signature	<u>07/15/2016</u> Date Signed
<u>Michael Conrad</u> Witness Name (print)	

ASSIGNMENT

I, Florian Roeger ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):


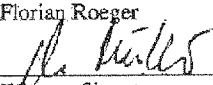
U.S. Patent Application entitled **QUERY PROCESSING USING PRIMARY DATA
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 _____ Inventor's Signature Florian Roeger	<u>16.07.16</u> _____ Date Signed
 _____ Witness Signature	<u>2016-07-16</u> _____ Date Signed
<u>MICHAEL MUELLER</u> _____ Witness Name (print)	

ASSIGNMENT

I, Jordan Tchobadjiyski ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):


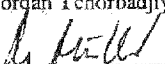
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therefrom, and for protecting and perfecting title to the APPLICATIONS and APPLICATION
DERIVATIVES.

 _____ Inventor's Signature Jordan Tchobadjiyski	<u>14.07.2016</u> _____ Date Signed
 _____ Witness Signature	<u>2016-07-14</u> _____ Date Signed
<u>MICHAEL MUELLER</u> _____ Witness Name (print)	

ASSIGNMENT

I, Ruadhan MacFadden ("ASSIGNOR"), have invented subject matter ("INVENTION"), disclosed and/or claimed in the following patent application(s) ("APPLICATIONS"):



U.S. Patent Application entitled **QUERY PROCESSING USING PRIMARY DATA
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	<u>14.07.16</u>
Inventor's Signature Rudhan MacFadden	Date Signed
	<u>14.07.2016</u>
Witness Signature	Date Signed
<u>JORDAN TCHOBADTIYSKI</u>	
Witness Name (print)	