

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	90TR0002	006471700	2010 / 3	No

Award Recipient Information

Recipient DUNS Number	006471700	Recipient Address 1	200 1ST ST SW
Recipient Account Number	92014104	Recipient Address 2	
Recipient Congressional District	01	Recipient City	ROCHESTER
Parent DUNS Number	167141923	Recipient State	MN
Recipient Type	77.80.95.A8.M8.VW	Recipient ZIP Code + 4	559050002
Recipient Legal Name	MAYO CLINIC	Recipient Country	USA
Recipient DBA Name			

Project / Award Information

Funding Agency Code	7500	Total Number of Sub Awards less than \$25,000/award	0
Awarding Agency Code	7500	Total Amount Sub Awards less than \$25,000/award	0.00
Program Source (TAS) Code	75-0131	Total Number of Sub Awards to Individuals	0
Sub Account Number for Program Source		Total Amount of Sub Awards to Individuals	0.00
CFDA Number	93.728	Total Number of Payments to Vendors less than \$25,000/award	54
Amount of Award	15000000.00	Total Amount of Payments to Vendors less than \$25,000/award	23262.12
Award Date	03/19/2010		
Award Description	<p>We propose research that will generate a framework of open source services that can be dynamically configured to transform HER data into standards-conforming, comparable information suitable for large-scale analyses, inferencing, and integration of disparate health data. We will apply these services to phenotype recognition (disease, risk factor, eligibility, or adverse event) in medical centers and population-based settings. Finally, we will examine data quality and repair strategies with real-work evaluations of their behavior in Clinical and Translational Science Awards (CTSAs), health information exchanges (HIEs), and National Health Information Network (NHIN) connections. We have assembled a federated informatics research community committed to open-</p>		

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sources resources that can industrially scale to address barriers to the broad-based, facile, and ethical use of EHR data for secondary purposes. We will collaborate to create, evaluate, and refine informatics artifacts that advance the capacity to efficiently leverage EHR data to improve care, generate new knowledge, and address population needs. Our goal is to make these artifacts available to the community of secondary EHR data users, manifest as open-source tools, services, and scalable software. In addition, we have partnered with industry developers who can make these resources available with commercial deployment. We propose to assemble modular services and agents from existing open-source software to improve the utilization of EHR data for a spectrum of use-cases and focus on three themes: Normalization, Phenotypes, and Data Quality/Evaluation. Our six projects span one or more of these themes, though together constitute a coherent ensemble of related research and development. Finally, these services will have open-source deployments as well as commercially supported implementations. There are six strongly intertwined, mutually dependent projects, including:

- 1) Semantic and Syntactic Normalization
- 2) Natural Language Processing (NLP)
- 3) Phenotype Applications
- 4) Performance Optimization
- 5) Data Quality Metrics
- 6) Evaluation Frameworks.

The first two projects align with our Data Normalization theme, with Phenotype Applications and Performance Optimization span themes 1 and 2 (Normalization and Phenotyping); while the

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last two projects correspond to our third theme.

Project Information

Project Name or Project/ Program Title	Activity Codes (NAICS or NTEE-NPC) (up to 10)
<p>Quarterly Activities/ Project Description</p> <p>Sharp Area 4: Secondary Use of HER Data</p> <p>The major achievements in the SHARP Area 4 program include: Foster social connections across projects; Recognition by team members that not all problems must be solved within their team (i.e. NLP & phenotypes; Phenotypes & CEM normalization) & shared responsibility for overlapping dependencies. Data Normalization & Evaluation project progress includes: Designation of Clinical Element Models (CEMs) as canonical form; Utilizing use case scenario?s (PAD, CPNA, etc) for CEM normalization; Exploration into generalizable CEM models ? diagnosis, medications, labs; Development of processes/tools to identify relevant existing CEM models within CEM libraries; Development of processes to identify missing CEMs for data (and classes of data) in use-cases; Preliminary population of phenotype use-cases. Clinical Natural Language</p>	<p>Activity Code 1 E06.04</p> <p>Activity Code 2</p> <p>Activity Code 3</p> <p>Activity Code 4</p> <p>Activity Code 5</p> <p>Activity Code 6</p> <p>Activity Code 7</p> <p>Activity Code 8</p> <p>Activity Code 9</p> <p>Activity Code 10</p>

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Processing (cNLP) progress includes a detailed 4-year project plan. Tasks currently in the execution phase are:
 Investigative tasks: (1) defining CEMs & attributes as normalization targets for NLP, (2) defining set of clinical named entities & their attributes, (3) methods for cNE.
 Engineering tasks: (1) defining users, (2) incorporating site NLP tools into cTAKES & UIMA, (3) common conventions & requirements, (4) de-identification flow & data sharing & the forging of cross-SHARP collaborations (SHARP area 3).
 High throughput Phenotyping (HTP) project progress includes: Explored use case phenotypes from eMERGE network for HTP process validation;
 Representation of phenotype descriptions & data elements using Clinical Element Models;
 Preliminary execution of phenotyping algorithms (Peripheral Arterial Disease) to compare aggregate data.
 Infrastructure & Scalability project progress includes: Some initial discussions on UIMA were held in a meeting at MIT. A plan is underway for a UIMA "deep dive" for other members from Intermountain Health & Mayo. A discussion is pending to understand the how UIMA might fit with RPE (in particular, BPEL).

Project Status Less than 50% completed
Total Federal Amount ARRA Funds Received/ Invoiced 251879.63

Number of Jobs 4.63
Description of Jobs Created Investigators, Project Managers, Research Associates, Senior Analyst/Programmers, Analyst/Programmer, Project Assistant Principal Investigator, Research Software Developer, Research Aide, Research

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	Projent Assistant, Postdoctoral Associate, Assistant Professor, Chief Executive Officer, Chief Operating Officer, HIE/Terminology Solution Architect, Senior Developer, Graduate Students, Software Engineer, Medical Informaticist Consultant, Information Systems Director, Medical Informaticist Senior, Medical Vocabulary Senior
Total Federal Amount of ARRA Expenditure	316211.66
Total Federal ARRA Infrastructure Expenditure	0.00
Infrastructure Purpose and Rationale	

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Infrastructure Contact

Name	Street Address 1
Email	Street Address 2
Phone	Street Address 3
Ext	City
	State
	ZIP Code + 4

Primary Place of Performance

Address 1	200 First Street SW
Address 2	
City	Rochester
Country Code	US
State	MN
ZIP Code + 4	55905 - 0002
Congressional District	01

Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

Report Audit Trail

Created By	Qin Yi Xu
Date Created	10/08/2010 02:22 PM
Last Updated By	Qin Yi Xu
Last Updated On	10/12/2010 12:51 PM

Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	002563455	Sub Recipient Address 1	1633 Broadway
Sub Recipient Congressional District	08	Sub Recipient Address 2	
Sub Recipient Type		Sub Recipient City	New York
Sub Recipient Legal Name	Deloitte Consulting LLP	Sub Recipient State	New York
Sub Recipient DBA Name		Sub Recipient ZIP Code + 4	100196708
		Sub Recipient Country	US

Sub Award Information

Sub Award Number	90TR0002-01B
Amount of Sub Award	108750.00
Total Sub Award Funds Disbursed	45327.59
Sub Award Date	09/09/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Minneapolis
Country Code	US
State	MN
ZIP Code + 4	55402 - 1550
Congressional District	05

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

Report Audit Trail

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	004514360	Sub Recipient Address 1	3520 FIFTH AVE
Sub Recipient Congressional District	14	Sub Recipient Address 2	
Sub Recipient Type	A8.M8.VW	Sub Recipient City	PITTSBURGH
Sub Recipient Legal Name	UNIVERSITY OF PITTSBURGH THE	Sub Recipient State	PA
Sub Recipient DBA Name		Sub Recipient ZIP Code + 4	152133320
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number	90TR0002J
Amount of Sub Award	113224.00
Total Sub Award Funds Disbursed	9823.73
Sub Award Date	07/26/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Pittsburgh
Country Code	US
State	PA
ZIP Code + 4	15213 - 3320
Congressional District	14

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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Sub Recipient Information

Sub Recipient DUNS Number	007431505	Sub Recipient Address 1	3100 MARINE ST 572 UCB
Sub Recipient Congressional District	02	Sub Recipient Address 2	
Sub Recipient Type	2F.95.M8.OH.VW	Sub Recipient City	BOULDER
Sub Recipient Legal Name	REGENTS OF THE UNIVERSITY OF COLORADO, THE	Sub Recipient State	CO
Sub Recipient DBA Name	UNIVERSITY OF COLORADO	Sub Recipient ZIP Code + 4	803090001
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number	90TR0002-01K
Amount of Sub Award	238363.00
Total Sub Award Funds Disbursed	0.00
Sub Award Date	06/03/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Boulder
Country Code	US
State	CO
ZIP Code + 4	80309 - 0000
Congressional District	02

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

Report Audit Trail

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	072955503	Sub Recipient Address 1	36 S STATE ST STE 2300
Sub Recipient Congressional District	01	Sub Recipient Address 2	
Sub Recipient Type	77.80.A8.VW	Sub Recipient City	SALT LAKE CITY
Sub Recipient Legal Name	INTERMOUNTAIN HEALTH CARE, INC.	Sub Recipient State	UT
Sub Recipient DBA Name	I H C HEALTH SERVICES	Sub Recipient ZIP Code + 4	841111470
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number	90TR0002-01H
Amount of Sub Award	347223.00
Total Sub Award Funds Disbursed	0.00
Sub Award Date	07/20/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Salt Lake City
Country Code	US
State	UT
ZIP Code + 4	84111 - 1470
Congressional District	01

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

Report Audit Trail

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	076593722	Sub Recipient Address 1	300 LONGWOOD AVE
Sub Recipient Congressional District	08	Sub Recipient Address 2	
Sub Recipient Type	77.80.95.A8.VW	Sub Recipient City	BOSTON
Sub Recipient Legal Name	CHILDREN'S HOSPITAL CORPORATION, THE	Sub Recipient State	MA
Sub Recipient DBA Name	CHILDRENS HOSPITAL OF BOSTON	Sub Recipient ZIP Code + 4	021155724
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number 90TR0002-01A
Amount of Sub Award 238415.00
Total Sub Award Funds Disbursed 21562.20
Sub Award Date 06/17/2010

Sub Recipient Place of Performance

Address 1
Address 2
City Boston
Country Code US
State MA
ZIP Code + 4 02115 - 5724
Congressional District 08

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	078198520	Sub Recipient Address 1	320 WESTLAKE AVE N STE 100
Sub Recipient Congressional District	07	Sub Recipient Address 2	
Sub Recipient Type	A8.VW	Sub Recipient City	SEATTLE
Sub Recipient Legal Name	GROUP HEALTH COOPERATIVE	Sub Recipient State	WA
Sub Recipient DBA Name		Sub Recipient ZIP Code + 4	981095218
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number	90TR0002-01E
Amount of Sub Award	156776.00
Total Sub Award Funds Disbursed	0.00
Sub Award Date	07/01/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Seattle
Country Code	US
State	WA
ZIP Code + 4	98101 - 1448
Congressional District	07

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

Report Audit Trail

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	084006741	Sub Recipient Address 1	1101 KITCHAWAN RD
Sub Recipient Congressional District	19	Sub Recipient Address 2	
Sub Recipient Type	2X.VW	Sub Recipient City	YORKTOWN HEIGHTS
Sub Recipient Legal Name	INTERNATIONAL BUSINESS MACHINES CORPORATION	Sub Recipient State	NY
Sub Recipient DBA Name	IBM	Sub Recipient ZIP Code + 4	105980218
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number	90TR0002-01F
Amount of Sub Award	352432.00
Total Sub Award Funds Disbursed	0.00
Sub Award Date	07/14/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Yorltpwm Heights
Country Code	US
State	NY
ZIP Code + 4	10598 - 0218
Congressional District	19

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	084433759	Sub Recipient Address 1	15907 TWO RIVERS CV
Sub Recipient Congressional District	31	Sub Recipient Address 2	
Sub Recipient Type	77.A8.VW	Sub Recipient City	AUSTIN
Sub Recipient Legal Name	CLINICAL DATA INTERCHANGE STANDARDS CONSORTIUM, INC	Sub Recipient State	TX
Sub Recipient DBA Name	CDISC	Sub Recipient ZIP Code + 4	787175348
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number	90TR0002-01D
Amount of Sub Award	87000.00
Total Sub Award Funds Disbursed	0.00
Sub Award Date	05/20/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Austin
Country Code	US
State	TX
ZIP Code + 4	78717 - 5348
Congressional District	31

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	152652822	Sub Recipient Address 1	1400 WASHINGTON AVE
Sub Recipient Congressional District	21	Sub Recipient Address 2	
Sub Recipient Type	A8.VW	Sub Recipient City	ALBANY
Sub Recipient Legal Name	RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK, THE	Sub Recipient State	NY
Sub Recipient DBA Name	RF-SUNY AT THE UNIVERSITY AT ALBANY	Sub Recipient ZIP Code + 4	122220100
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number 90TR0002-011
Amount of Sub Award 127683.00
Total Sub Award Funds Disbursed 612.44
Sub Award Date 08/10/2010

Sub Recipient Place of Performance

Address 1
Address 2
City Albany
Country Code US
State NY
ZIP Code + 4 12222 - 0100
Congressional District 21

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	800334984	Sub Recipient Address 1	5155 PARKSTONE DR
Sub Recipient Congressional District	10	Sub Recipient Address 2	
Sub Recipient Type	2X.VN	Sub Recipient City	CHANTILLY
Sub Recipient Legal Name	AGILEX TECHNOLOGIES, INC.	Sub Recipient State	VA
Sub Recipient DBA Name	AGILEX	Sub Recipient ZIP Code + 4	201513812
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number 90TR0002-01C
Amount of Sub Award 86982.00
Total Sub Award Funds Disbursed 10126.78
Sub Award Date 06/02/2010

Sub Recipient Place of Performance

Address 1
Address 2
City Chantilly
Country Code US
State VA
ZIP Code + 4 20151 - 3812
Congressional District 10

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	Yes	Officer 3 Name	John Edwards
Officer 1 Name	Robert Otto	Officer 3 Compensation	350000.00
Officer 1 Compensation	535227.00	Officer 4 Name	Timothy Hoescht
Officer 2 Name	Mathew Warren	Officer 4 Compensation	320000.00
Officer 2 Compensation	459906.00	Officer 5 Name	Wendell Ocasio
		Officer 5 Compensation	309999.00

Report Audit Trail

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Report Information

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter
Grant	90TR0002	006471700	2010 / 3

Sub Recipient Information

Sub Recipient DUNS Number	833201671	Sub Recipient Address 1	8170 33 AVE S
Sub Recipient Congressional District	03	Sub Recipient Address 2	
Sub Recipient Type	2U.77.LJ.VW	Sub Recipient City	BLOOMINGTON
Sub Recipient Legal Name	MINNESOTA HEALTH INFORMATION EXCHANGE LLC	Sub Recipient State	MN
Sub Recipient DBA Name		Sub Recipient ZIP Code + 4	554254516
		Sub Recipient Country	USA

Sub Award Information

Sub Award Number	90TR0002-01G
Amount of Sub Award	43500.00
Total Sub Award Funds Disbursed	0.00
Sub Award Date	09/08/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Eagan
Country Code	US
State	MN
ZIP Code + 4	55121 - 9998
Congressional District	02

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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Sub Recipient Information

Sub Recipient DUNS Number	833206399	Sub Recipient Address 1	600 E Crescent Ave Ste 205
Sub Recipient Congressional District	05	Sub Recipient Address 2	
Sub Recipient Type		Sub Recipient City	Upper Saddle River
Sub Recipient Legal Name	Centerphase Solutions Inc.	Sub Recipient State	NJ
Sub Recipient DBA Name		Sub Recipient ZIP Code + 4	07458
		Sub Recipient Country	US

Sub Award Information

Sub Award Number	90TR0002-01L
Amount of Sub Award	43500.00
Total Sub Award Funds Disbursed	0.00
Sub Award Date	05/20/2010

Sub Recipient Place of Performance

Address 1	
Address 2	
City	Upper Saddke River
Country Code	US
State	NJ
ZIP Code + 4	07458 - 1846
Congressional District	05

Sub Recipient Highly Compensated Officers

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

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