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# <sup>11</sup> Challenges of Enterprise Resource Planning implementation <sup>13</sup> in Iran large organizations

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#### ABSTRACT

An Enterprise Resource Planning (ERP) system is a fully integrated business management system covering functional areas of an enterprise like Logistics, Production, Finance, Accounting and Human Resources. The implementation of this system is a difficult and high cost proposition that places tremendous demands on corporate time and resources. Most of the ERP implementations have been classified as failures because they did not achieve predetermined corporate goals. The main goal of this research is determining the most important challenges of ERP implementation in Iran large organizations and our case study was the Isfahan Telecommunication. The population of this study consists of the 1500 employees of this organization from which 40 experts and employees were selected randomly and uniformly as a sample. We used questionnaire and interviews to collect data and analyzed them by SPSS using one sample *t*-test. The result of the study shows that the most important challenges of ERP implementation are organizational barriers, especially lack of human resources with the weighted average of 267.33. The next important issues of ERP implementation are technological factors such as unbalanced combination in team projects and then individual factors like lack of senior executives' involvement with the weighted average of 48.8 are the least important challenges in ERP implementation.

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#### 1. Introduction

In today's competitive business environment, companies try to provide customers with goods and services faster and less expensively than their competition. How do they do that? Often, the key is an efficient, integrated information system. An Enterprise Resource Planning (ERP) system can help a company integrate its operations by serving as a company-wide computing environment that includes a shared database—delivering consistent data

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http://dx.doi.org/10.1016/j.is.2015.05.003 0306-4379/© 2015 Published by Elsevier Ltd. across all business functions in real time [1]. As Hitt, Wu, and Zhou (2002) stated, "the standardized and integrated ERP software environment provides a degree of interoperability that was difficult and expensive to achieve with stand-alone, custom-built systems" [2].

Implementing of the ERP, as other information systems, faces several issues and challenges [3]. It is interesting that only 63-percent of organizations consider their ERP project as a "success" around the world in 2014 [4], and this rate is much lower for Iranian organizations, which ERP is new to them and have failed in most of the cases. According to Helo et al. (2008), "Unlike other information systems, the major problems of ERP implementation are not technologically related issues such as technological

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1 complexity, compatibility, standardization, etc. but mostly [about] organization and human related issues like resis-3 tance to change, organizational culture, incompatible business processes, project mismanagement, top management 5 commitment, etc." [5]. Top ten issues of ERP implementation are [6]: 7

- 1. Lack of senior manager commitment.
- 2. Ineffective communications with users.
- 3. Insufficient training of end-users.
- 4. Failure to get user support. 11
  - 5. Lack of effective project management methodology.
- 6. Conflicts between user departments. 13
  - 7. Attempts to build bridges to legacy applications.
  - 8. Composition of project team members.
    - 9. Failure to redesign business process.
  - 10. Misunderstanding of change requirements.

In this paper, after describing ERP concepts and literature, we introduce the most important issues and challenges of implementing of an ERP system, specifically in large organizations and then through an exploratory research by using a Likert scaled questionnaire which its respondents were 40 employees and experts in one of the large organizations in Iran. Isfahan Telecommunication, we determine the most challenging issues and problems of implementing an ERP system that results in failure of implementation and after that we suggest some solutions to overcome the issues of implementing an ERP system.

#### 2. Theoretical concepts

## 2.1. ERP system

Enterprise Resource Planning was born from its predecessor, Manufacturing Resource Planning (MRP). During its formative years in the 1960s, MRP was referred to as Manufacturing Requirements Planning. MRP and the first ERP systems were designed as an organizational and scheduling tool for manufacturing firms. The function of the next generation of ERP software systems stretched beyond the confines of what it could do for an individual manufacturing firm's internal use, and began including customers and suppliers [7].

ERP provides two major benefits that do not exist in 47 non-integrated departmental systems: (1) a unified enterprise view of the business that encompasses all functions 49 and departments; and (2) an enterprise database where all business transactions are entered, recorded, processed, 51 monitored, and reported. This unified view increases the requirement for, and the extent of, interdepartmental 53 cooperation and coordination. But it enables companies to achieve their objectives of increased communication 55 and responsiveness to all stakeholders [8]. ERP allows different departments with diverse needs to communicate with each other by sharing the same information in a 57 single system. ERP thus increases cooperation and inter-59 action between all business units in an organization on this basis [9]. Its goals include high levels of customer 61 service, productivity, cost reduction, and inventory

turnover, and it provides the foundation for effective supply chain management and e-commerce. It does this by developing plans and schedules so that the right resources-manpower, materials, machinery, and money -are available in the right amount when needed. Fig. 1 shows the ERP extension. As it is shown in Fig. 1, ERP incorporates other business extensions such as supply chain management and customer relationship management [10].

#### 2.2. Challenges of ERP implementation

75 Implementing an ERP system is not an inexpensive or risk-free venture. In fact, 65% of executives believe that 77 ERP systems have at least a moderate chance of hurting their businesses because of the potential for implementa-79 tion problems [11]. According to the Panorama Consulting's 2014 ERP report, only 63-percent of respondents 81 consider their ERP project a "success." Nearly one guarter of respondents (21-percent) are "neutral" or "don't know" 83 if their project was a success, indicating that organizations might not have created a business case, conducted a post-85 implementation audit or communicated about project results. Nearly one in five respondents (16-percent) indi-87 cates that their organization's ERP project was a failure [4].

Despite ERP's promises to benefit companies and a 89 substantial capital investment, not all ERP implementations have successful outcomes. ERP implementations 91 commonly have delayed an estimated schedule and overrun an initial budget [5]. 93

Furthermore, the literature indicates that ERP implementations have sometimes failed to achieve the organi-95 zation's targets and desired outcomes. Most of the researches reported that the failure of ERP implementa-97 tions was not caused by the ERP software itself, but rather by a high degree of complexity from the massive changes 99 ERP causes in organizations [12].

Carton and Adam (2003), who reported four case studies of ERP implementation in Irish manufacturing firms, indicate



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- 1 a number of issues for ERP implementation as below [13]:
- Shifting to ERP can be a painful learning process, requiring unlearning old ways of working.
  - Subsidiaries of multinational firms are often faced with changes imposed, rather than designed.
  - Implementation of ERP systems usually lead to integration of data, which has the effect of centralizing ownership, away from the multinational subsidiary.
  - IT support also is often centralized (as a way to reduce IT cost), while responsibility for accurate data entry is shifted back to the point of entry, increasing the responsibility and work of the subsidiary.
  - ERP implementation can often change the balance of power within organizations, usually favoring central administration at the expense of subsidiaries.

#### 3. Research methodology

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In this paper, after reviewing the literature and discussions with ERP professors and experts, the ERP implementation barriers identified and then by setting appropriate questionnaire which has been confirmed by the professors and ERP experts in Isfahan Telecommunications, the hypothesis has been tested.

We can consider this study as a developing research 27 because the challenges of ERP implementation were categorized by using the existing literature and interviews 29 with ERP experts, and then with the help of the guestionnaire and interviews, the condition of the Isfahan 31 Telecommunication in terms of barriers to ERP implementation was discussed. Also, since the way of gathering 33 information was a fieldwork in an ERP specialist's population, it can be also a fieldwork study. With respect to the 35 method of data collection, this study can be seen as a descriptive survey research which describes the character-37 istics of the studied population included the nature of the situations and relationship. Finally, since the study was 39 done in the Isfahan Telecommunication, as a live and dynamic organization, and its results can be used practi-41 cally, it is an applied research as well.

The study population consists of the executives, spe-43 cialists, all engineers and experts in Isfahan Telecommunications who their activities are steering system, handling 45 the user's needs and solving the probable problems.Since the inferential statistics can analyses the data more accu-47 rately, the simple random sampling was used in this study. In this type of sampling, all of the defined population 49 members have an equal and independent chance of being in the sample. This means that the selection of a member 51 does not have any effect on the other members of the population selection. The sample size was calculated from 53 the following formula:

$$n = \frac{N Z_{\frac{5}{2}}^2 p(1-p)}{\epsilon(N-1) + Z_{\frac{5}{2}}^2 p(1-p)}$$
(1)

59 where *N* is the size of the statistical population, *n* is the size of statistical sample,  $\varepsilon = 0.05$  is the allowable error,  $Z_l$  61  $_{\infty 2}$  is the normal variable of the corresponding unit with a

95% confidence level=96. 1 and P is the proportion estimate of the variable attribute.

Since the proportion estimate of the variable attribute was not specified and also in order to ensure adequate sample size, *P* was considered, 0.5; because when all the conditions are constant, *P*=0.5 ensures the maximum probable size of the sample and also ensures that the sample size is sufficiently large so that can be generalized to the population. Thus, the formula for sample size is equal to 61.  $29 \approx 40$ .

In this study, the main question facing researchers is: "what are the main challenges of ERP Implementation in Isfahan Telecommunication?". We tested the basic hypothesis in the format of three other assumptions, to get the answer of the question:

The main hypothesis:

"Implementation of ERP in Isfahan Telecommunications is facing several challenges."

Secondary assumptions:

- Organizational factors (lack of human resources) are as a challenge to the implementation of ERP in Isfahan Telecommunication.
- Individual factors are as a challenge to the implementation of ERP in Isfahan Telecommunication.
- Technological factors are as a challenge to the implementation of ERP in Isfahan Telecommunication.

To test these assumptions, a questionnaire was set by reading professional articles and consultation with tea-93 chers and professors. We decided to use questionnaire firstly owning to the great scope of the research and 95 secondly because respondents were more familiar and comfortable with questionnaire and could answer several 97 questions quickly, additionally this method collects data in a standardized way as can be analyzed more scientifically 99 and easily. The questions of this questionnaire were designed based on the factors which have been identified 101 as critical success factors of ERP implementation by scientific papers, theses and books, so that in the absence 103 of these factors, ERP project would fail. In this study, with 105 respect to the goal of study, type of hypotheses, and also the aim of the questionnaire which was assessing the respondents' agreement with the questionnaire questions 107 in five different spectrums and moreover facility of the 109 Likert scale construction and interpretation in comparison with other measures, this scale was used and hence each specific question was evaluated by using a range of five 111 options: very low, low, medium, high and very high. The main vital factors of ERP implementation in Isfahan Tele-113 communication were obtained from the main factors of ERP implementation by consultation with the professors as 115 follows:

- 1. Lack of human resources.
- 2. Staff reluctance and resistance to change.
- 3. Lack of senior executives and management involvement.
- 4. Lack of flexibility and a good understanding of the all organization dimensions to align processes with ERP.
- 5. Absence of a balanced combination in the project teams 123

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which leads to poor communication and units conflict. 6. Difficulty in coordinating and training software for ERP implementation.

#### 3.1. Reliability test of the questionnaire

The most famous tool for testing the reliability of a questionnaire is Cronbach's alpha coefficient. Cronbach's alpha reflects the positive correlation of the set members and is computed as follows:

$$\alpha = \frac{K}{K-1} \left( 1 - \frac{\sum S_i^2}{S_{sum}^2} \right)$$
(2)

- $\alpha$ =Alpha coefficient.
- *i*=Subset numbers of the questionnaire questions.
- S<sub>i</sub><sup>2</sup>=Total variance.
  S<sub>sum</sub><sup>2</sup>=Variance of the test.

Cronbach's alpha coefficient can be in the range between zero and +1. Alpha values less than 0.6 indicates poor reliability, 0.7 shows an acceptable reliability range and more than 0.8 shows good validity [14].

Pre-test was used to determine the reliability of research. The correlation between the answers of the questionnaire was calculated by the split method using the Gutman coefficient which was 0.6725.

Cronbach's alpha coefficients for the first part of the 31 questions was 0.9320 and for the second part was 0.9000 which indicates good and acceptable reliability. 33

#### 3.2. Analysis of the questions and hypotheses 35

Analysis of questionnaire is assessing the hypothesis, in which data obtained from the questionnaire were tested by using SPSS software. The commonly used test for these conditions is the one sample *t* test which is a parametric test that determines whether the sample mean is statistically different from a known or hypothesized population mean.

This test has two default assumptions as follows: All observations have to follow a normal distribution, and also all observations should be independent. According to the central limit theorem, the distribution is normal; this theorem indicates that the additive coaction of a large number of independent random variables generally leads to probabilities that can, at least approximately, be calculated according to the normal distribution [15]. Moreover due to the sampling method, the second default assumption is also set.

#### 4. Results

We used the weighted average as the central index and the standard deviation as the indicator of the distribution of the sample test to analyze the main assumption. This test determines whether the number of the cases in the sample is significantly different from the expected number or proportion or not? In this test, Likert 5 choice questions were used. Weighted average obtained (267.33) with standard deviation (49.67) has a significant difference compared with the expected average of human resources lack (290.5).

Fig. 2 shows that the obtained weighted average have 85 significant difference with the expected average of each subscale. This means that this difference is not due to 87 measurement error or accident.

#### 4.1. The first hypothesis

One sample *t*-test was used to determine the first assumption test, which is shown in Table 1.

In the first hypothesis, since the volume of data that is larger than 30, and according to the central limit theorem, the 95 distribution of the statistical population is normally distributed. Given the normal distribution, in order to explain and 97 interpret variables, one-sample t-test with equal amount of number 3 (Test Value=3) and 95% confidence interval (5% 99 error) was used. In this case, if the *P*-Value is greater than 0.05, the evaluated variable has no meaningful difference with the 101 test number (3), so the evaluated case does exist in the population averagely, and if the amount of P-Value is less than 103 0.05, the measured variable has significant difference with the 105

43									105
	350							LHR: Lack of human resources	
45	300 -							SRC: Staff reluctance and resistance to change	107
47									109
49	250 -	Т						and management involvement	111
51	200 - 150 -							LFU:Lack of flexibility and a good understanding of the all organization dimensions to align	113
53	100							processes with ERP	115
55	100 -							ABP: Absence of a balanced combination in the project teams	117
57	0 -							DCT:Difficulty in coordinating and training software for ERP	119
50		LHR	SRC	LES	LFU	ABP	DCT	Implementation	121
29	Weighted average	290.5	66.5	52.5	83.8	84	87.5		121
61	Fig.2. One sample to	est resul	ts of ERP	, implen	nentatior	ı challen	ges comp	liance in Isfahan Telecommunication.	123

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strongly. As discussed above and as shown in Table 1, 65 challenges related to organizational factors does strongly exist is greater than 0.05. دانلو دکتیده مقالات علمی FREE دانلو دکتیده مقالات علمی free in ERP implementation at Isfahan Telecommunication. Table 2 4.3. The third hypotheses The third hypotheses was evaluated also by the one sample *t*-test, the results of this test is shown in following tables. As shown in Table 5, technological factors are one of the ERP challenges in Isfahan Telecommunication at a strong level, because the P-Value is less than 0.05. 75 Statistical test results of organizational factors (one sample t-test). 77 Organizational factors One sample *t*-test (number of test – 3) 79 (t) amount Degree of freedom (deg) Sig.(2tailed) Difference of averages 95% Standard error High Low 81 13.851 0.000 0714 36 0.612 0.816 83 85 One sample statistics of organizational factors. Organizational factors Standard deviation Number Average Average deviation 87 40 3.714 0.579 0.0516 89 91 Statistical test results of individual factors (one sample t-test). 93 Individual factors One sample t-test (number of test - 3) 95 Degree of freedom (deg) Sig.(2tailed) Difference of averages 95% Standard error (t) amount Low High 97 -0.7370.463 -0.029 -0.10850.497 36 99 101 One sample statistics of individual factors. Individual factors Number Standard deviation Average deviation Average 103 40 2.97 0.428 0.0399 105 107 Statistical test results of technological factors (one sample t-test). 109 Technological One sample *t*-test (number of test – 3) 111 (t) amount Degree of freedom Sig. Difference of 95% Standard 113 (deg) (2tailed) averages error Low High 115 11 36 0.000 2.05 2 1 117 119 One sample statistics of technological factors. Technological factors Number Average Standard deviation Average deviation 121 40 2.054 1.078 0.001 123 Please cite this article as: M. Babaei, et al., Challenges of Enterprise Resource Planning implementation in Iran large organizations, Information Systems (2015), http://dx.doi.org/10.1016/j.is.2015.05.003

4.2. The second hypothesis

The same test as the first hypothesis was used to evaluate the second hypothesis. Tables 4 and 5 show the second hypothesis test results.

test number, in this case, if the studied factor average is

greater than 3, the studied factor does exist in the population

#### Table 1

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As shown in Table 3, individual factors are also one of the ERP implementation challenges in Isfahan Telecommunication in an intermediate level, because the P-Value

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Friedman test determines whether the factors priority is the same, or at least two factors are significantly different. Variables' prioritizing was used for K correlated samples. The test results in two outputs. The first output is descriptive statistics that indicate the average rank of each variable and the second output is analysis statistics that provide the degree of freedom and the calculated error. Given in Table 6, it indicates that the organizational factors including lack of human resources, lack of flexibility and a good understanding of the all dimensions to align the processes with ERP, have the greatest impact as the ERP implementation challenges in large organizations. Technological factors, including lack of balance in the composition of the project teams, which leads to poor communication and units' conflict. difficulties with coordination and training software for the ERP implementation, and finally individual factors, such as staff reluctant and resistance to accept changes and also lack of management and senior executives' involvement, are in the next places, respectively.

#### 5. Conclusion and suggestions

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The main object of this research was determining the most important challenges of ERP implementation in large organizations in Iran; we selected Isfahan Telecommunication as the case study. In this paper, the main issues were classified into 3 main categories, and then, analyzing the collected data from the guestionnaire and interviews showed these results:

- 1. Organizational barriers are the most important ERP implementation challenges.
- 2. The second important issues are technological factors.
- 3. The individual factors are the least important challenges of the ERP implementation.
  - We recommend below suggestion to overcome these issues in an ERP implementation:
  - 1. First stage of an ERP implementation is providing the necessary infrastructure and resources including proper

software package or adequate server. Most of the ERP failures in Iran are because of the inadequate and inappropriate software and hardware requirements.

- 2. As it is said, implementing ERP will result in changes in some organizational processes and it is widely believed that Business process reengineering (BPR) is a basic aspect of ERP implementation [16]. In other words, BPR is a prerequisite to take full advantages of ERP, [17] so organizations have to implement BPR correctly in order to achieve the ERP goals.
- 3. The company should clearly define what positive results can be expected from the use of the ERP system before or during ERP implementation. This can make the system more useful, and help the users to understand why they should use the ERP system.
- 4. The ERP system should be easy to use. A complex system decreases its usefulness, and also makes users reluctant to use it. The system should be carefully designed to be user friendly, considering the screen design, user interface, page layout, help facilities, menus, etc.
- 5. Managers and experts should pay attention to the ERP benefits and have high commitment in ERP implemen-85 tation; this would encourage the other employees to use ERP system too. 87

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#### Appendix A

#### See Table A1 and A2 here.

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#### Table A1

One sample test results of ERP implementation challenges compliance in Isfahan Telecommunication.

45 47	Scale and subscale	Number of respondents	Obtained weighted average	Standard deviation	t quantity	Significant	Degree of freedom	Number of questions	Expected average	10 10
49	Lack of human resources Staff reluctance and resistance to change	40 40	267.33 63.06	49.67 11.49	-2.55 -1.77	0.01* 0.008*	11 14	4	290.5 66.5	- 11
51	Lack of senior executives and management involvement	40	48.8	9.46	-2.34	0.02*	15	6	52.5	11
53	Lack of flexibility and a good understanding of the all organization dimensions to align processes with ERP	40	77.43	16.78	-2.01	0.04*	21	8	83.8	11
55	Absence of a balanced combination in the project teams	40	78.15	16.06	-2.09	0.04*	22	8	84	11
57	Difficulty in coordinating and training software for ERP implementation	40	76.66	13.73	-4.86	00.00*	18	6	87.5	11
59	* <i>p</i> =0.05.									- 12

59	57	55	53	51	49	47	45	43	41	39	37	35	$\widetilde{\omega}$	31	29	27	25	23	21	19	17	15	13	11	9	7	сī	ω	<u> </u>
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Job position	Manager	Project manager	Manager	Expert	Expert	Supervisor	Project manage	er Assistant ma	Expert	Vice Pre
Gender Age	Male 45	Male 38	Male 41	Male 44	Female 38	Male	Male	Female	Male	Male 40
0.1	2.00	2.00	3.00	3.00	3 00	42	41	45	34	400
0.2	2.00	2.00	2.00	1.00	2 00	2.00	1.00	2.00	3.00	2.00
Q2	3.00	2.00	3.00	1.00	5.00	2.00	3.00	2.00	3.00	3.00
Q 3	2.00	1.00	2.00	1.00	4.00	3.00	2.00	2.00	4.00	4.00
Q 4	2.00	2.00	3.00	2.00	2.00	2.00	3.00	3.00	4.00	2.00
Q 5	1.00	2.00	2.00	1.00	4.00	2.00	3.00	3.00	2.00	3.00
Q 6	3.00	2.00	2.00	1.00	4.00	1.00	2.00	3.00	3.00	4.00
Q 7	4.00	1.00	3.00	2.00	4.00	2.00	3.00	3.00	3.00	3.00
Q 8	3.00	2.00	3.00	2.00	3.00	2.00	3.00	2.00	3.00	3.00
Q 9	3.00	1.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	4.00
Q 10	3.00	1.00	3.00	2.00	4.00	3.00	2.00	3.00	3.00	4.00
Q 11	3.00	3.00	3.00	2.00	2.00	3.00	2.00	1.00	3.00	3.00
Q 12	3.00	3.00	2.00	2.00	3.00	3.00	1.00	3.00	4.00	4.00
Q 13	2.00	2.00	2.00	2.00	3.00	3.00	1.00	2.00	3.00	4.00
Q 14	3.00	2.00	2.00	2.00	4.00	3.00	1.00	3.00	3.00	4.00
Q 15	3.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00	4.00	3.00
Q 16	3.00	2.00	3.00	2.00	2.00	3.00	4.00	4.00	5.00	3.00
0.17	3.00	2.00	3.00	1.00	2.00	3.00	2.00	3.00	3.00	400
0.18	2.00	2.00	3.00	3.00	2.00	3.00	3.00	1.00	3.00	2.00
0.10	2.00	2.00	2.00	2.00	2.00	4.00	2.00	3.00	2.00	4.00
Q 19	2.00	2.00	3.00	2.00	2.00	4.00	2.00	4.00	3.00	4.00
Q 20	1.00	2.00	3.00	4.00	2.00	4.00	2.00	4.00	4.00	2.00
Q 21	3.00	2.00	2.00	4.00	2.00	4.00	4.00	4.00	4.00	4.00
Q 22	2.00	4.00	4.00	5.00	2.00	4.00	2.00	4.00	4.00	3.00
Q 23	1.00	1.00	2.00	1.00	2.00	4.00	2.00	2.00	2.00	2.00

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larg	Plea	Table A2 (cont	inued )										علمي fre		
e org	ISE C	Job position	Manager	Project manager	Manager	Expert	Expert	Superviso	or		Project manager	Assis	tant manager	Expert	Vice President
ganiz	te 1	Q 24	2.00	2.00	2.00	1.00	2.00	2.00			4.00	2.00	دانلو دکنند er.me	2.00	2.00
atio	this	Q 25	2.00	1.00	2.00	1.00	4.00	3.00			4.00	2.00	pape	3.00	3.00
ns, Ir	artic	Q 26	2.00	1.00	3.00	5.00	4.00	2.00			2.00	2.00	щ	1.00	3.00
lforn	le as	Q 27	1.00	2.00	4.00	2.00	3.00	2.00			2.00	2.00		4.00	3.00
natio	S: M	Q 28	1.00	1.00	4.00	1.00	2.00	3.00			4.00	3.00		3.00	2.00
n Sy:	. Bal	Q 29	2.00	2.00	2.00	2.00	2.00	2.00			2.00	2.00		2.00	2.00
stem	baei,	Q 30	2.00	2.00	3.00	3.00	2.00	2.00			4.00	2.00		2.00	4.00
s (20	et	Q 31	1.00	2.00	3.00	2.00	2.00	4.00			2.00	2.00		2.00	4.00
)15),	al., (	Q 32	1.00	3.00	4.00	1.00	2.00	4.00			4.00	1.00		2.00	2.00
http	hall	Q 33	2.00	2.00	4.00	2.00	3.00	2.00			2.00	2.00		3.00	3.00
://dx	enge	Q 34	2.00	2.00	2.00	1.00	2.00	2.00			4.00	2.00		4.00	2.00
.doi.	s of	Q 35	2.00	1.00	2.00	2.00	2.00	4.00			4.00	2.00		2.00	2.00
org/1	Ente	Q 36	2.00	1.00	2.00	1.00	2.00	4.00			4.00	2.00		4.00	2.00
0.10	erpris	Q 37	1.00	2.00	2.00	3.00	2.00	4.00			4.00	2.00		3.00	3.00
16/j.i	se R	Job position	Expert	Expert	Project manager	Expert	Manager	CFG	50	Expert		2100	Team leader	Expert	Project manager
s.201	esou	Gender Age	Male 35	Male 36	Male 48	Male 51	Male 41	Ma 38	ale B	Male			Male	Female	Female 44
5.05	rce I	Q 1	2.00	2.00	2.00	3.00	1.00	2.	2.00	29			43	45	3.00
.003	lanr	Q 2	3.00	3.00	3.00	2.00	2.00	3.	8.00	2.00			3.00	3.00	3.00
	ling	Q 3	2.00	2.00	2.00	3.00	2.00	2.	2.00	2.00			3.00	1.00	4.00
	imp	Q 4	2.00	2.00	2.00	2.00	3.00	2.	2.00	1.00			2.00	1.00	2.00
	leme	Q 5	3.00	1.00	2.00	1.00	1.00	1.	.00	2.00			3.00	2.00	4.00
	ntati	Q 6	4.00	3.00	3.00	2.00	2.00	3.	8.00	2.00			2.00	1.00	4.00
	on i	Q 7	3.00	3.00	3.00	2.00	2.00	4.	ł.00	2.00			2.00	1.00	4.00
	n Ira	Q 8	3.00	4.00	2.00	3.00	2.00	3.	8.00	2.00			3.00	2.00	3.00
	ut	Q 9	1.00	3.00	2.00	2.00	2.00	3.	8.00	2.00			3.00	2.00	3.00

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2.00 2.00 2.00 2.00 2.00 2.00 3.00 3.00	2.00 1.00 4.00 3.00 2.00 1.00 3.00 4.00 4.00 4.00 3.00 3.00 3.00 2.00	2.00 2.00 3.00 3.00 2.00 3.00 4.00 2.00 3.00 2.00 2.00 3.00 2.00 2.00	3.00 4.00 2.00 2.00 2.00 3.00 2.00 4.00 4.00 4.00 4.00 2.00 3.00	1.00 2.00 2.00 2.00 3.00 2.00 1.00 2.00 1.00 3.00 2.00 1.00 3.00 2.00	3.00 3.00 2.00 3.00 3.00 3.00 2.00 2.00	1.00 1.00 3.00 2.00 2.00 2.00 2.00 2.00 3.00 2.00 2				3. 3. 2. 2. 2. 3. 3. 3. 3. 3. 2. 2.	00 مالير عندمالات على Freepaper.me paper 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	2.0 2.0 2.0 2.0 2.0 2.0 2.0 1.0 1.0 3.0 3.0 4.0		4.00 2.00 3.00 4.00 2.00 2.00 2.00 2.00 3.00 2.00 2.00 2	
2.00 3.00 2.00 2.00 2.00 2.00 2.00 3.00 3	1.00 4.00 3.00 2.00 1.00 3.00 5.00 4.00 4.00 4.00 3.00 3.00 3.00 2.00	2.00 2.00 3.00 3.00 2.00 3.00 4.00 2.00 3.00 2.00 2.00 3.00 3.00 2.00 3.00	4.00 2.00 2.00 2.00 2.00 3.00 2.00 4.00 4.00 4.00 4.00 2.00 3.00	2.00 2.00 2.00 2.00 3.00 2.00 1.00 2.00 1.00 3.00 2.00 1.00 3.00 2.00	3.00 3.00 2.00 3.00 3.00 3.00 3.00 2.00 1.00 3.00 2.00 2.00 2.00	1.00 3.00 2.00 2.00 1.00 2.00 2.00 2.00 3.00 2.00 2.00 4.00				3. 3. 2. 2. 2. 3. 3. 3. 3. 3. 2. 2.	00 Paper me paper 200 Paper me paper 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	2.0 2.0 2.0 2.0 2.0 2.0 1.0 1.0 3.0 3.0 4.0		2.00 3.00 3.00 4.00 2.00 2.00 2.00 2.00 2.00 2.00 2	
2.00 3.00 2.00 2.00 2.00 2.00 3.00 3.00	4.00 3.00 2.00 1.00 3.00 5.00 4.00 4.00 4.00 3.00 3.00 3.00 2.00	2.00 3.00 3.00 2.00 3.00 4.00 2.00 3.00 2.00 2.00 3.00 3.00 2.00 3.00	2.00 2.00 2.00 2.00 3.00 2.00 4.00 4.00 4.00 4.00 2.00 3.00	2.00 2.00 2.00 3.00 2.00 1.00 2.00 1.00 3.00 2.00 1.00	3.00 3.00 2.00 3.00 3.00 3.00 2.00 1.00 3.00 2.00 2.00 2.00	3.00 3.00 2.00 1.00 2.00 2.00 2.00 2.00 2.00 2				3. 2. 2. 3. 3. 3. 3. 3. 2. 2.	00 ber me baper 00 00 ber me baper 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	2.0 2.0 2.0 2.0 2.0 1.0 1.0 3.0 3.0 4.0		2.00 3.00 3.00 4.00 2.00 2.00 2.00 2.00 2.00 3.00 2.00 2	
2.00 2.00 2.00 2.00 2.00 3.00 3.00 2.00 2	4.00 3.00 2.00 1.00 3.00 5.00 4.00 4.00 4.00 3.00 3.00 3.00 2.00	3.00 3.00 2.00 3.00 4.00 2.00 3.00 2.00 2.00 3.00 2.00 2.00 2	2.00 2.00 2.00 3.00 2.00 4.00 4.00 4.00 4.00 2.00 3.00	2.00 2.00 3.00 2.00 1.00 2.00 1.00 3.00 2.00 1.00	2.00 3.00 3.00 3.00 2.00 2.00 1.00 3.00 2.00 2.00	3.00 2.00 1.00 2.00 2.00 2.00 3.00 2.00 2.00 4.00				2. 2. 2. 3. 3. 3. 3. 3. 2. 2.	00 00 00 00 00 00 00 00 00 00 00 00 00	2.0 2.0 2.0 2.0 1.0 1.0 3.0 3.0 4.0		3.00 3.00 4.00 2.00 2.00 2.00 2.00 3.00 2.00	
2.00 2.00 2.00 2.00 3.00 3.00 2.00 2.00	2.00 1.00 3.00 5.00 4.00 4.00 4.00 3.00 3.00 3.00 2.00	3.00 3.00 2.00 3.00 2.00 3.00 2.00 3.00 2.00 3.00 2.00 2	2.00 2.00 3.00 2.00 4.00 4.00 4.00 4.00 2.00 3.00	2.00 2.00 3.00 2.00 1.00 2.00 1.00 3.00 2.00 1.00 1.00	2.00 3.00 3.00 3.00 2.00 2.00 1.00 3.00 2.00 2.00	2.00 2.00 2.00 2.00 2.00 3.00 2.00 2.00				2. 2. 3. 3. 3. 3. 3. 2. 2.	00 <sup>0</sup> 00 00 00 00 00 00 00 00 00	2.0 2.0 2.0 1.0 1.0 3.0 4.0 4.0		4.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	
2.00 2.00 2.00 3.00 3.00 2.00 2.00 2.00	2.00 1.00 3.00 5.00 4.00 4.00 4.00 3.00 3.00 3.00 2.00	2.00 3.00 4.00 2.00 3.00 2.00 2.00 3.00 2.00 2.00 2	2.00 2.00 3.00 2.00 4.00 4.00 4.00 4.00 2.00 3.00	3.00 2.00 1.00 2.00 2.00 1.00 3.00 2.00 1.00	3.00 3.00 3.00 2.00 2.00 1.00 3.00 2.00 2.00	2.00 1.00 2.00 2.00 3.00 2.00 2.00 2.00 4.00				2. 2. 3. 3. 3. 3. 3. 2. 2.	00 00 00 00 00 00 00 00	2.0 2.0 1.0 1.0 3.0 4.0 4.0		2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	
2.00 2.00 3.00 3.00 2.00 2.00 2.00 1.00	3.00 5.00 4.00 4.00 3.00 3.00 3.00 2.00	2.00 3.00 4.00 2.00 3.00 2.00 3.00 2.00 2.00 2.00 2	2.00 3.00 2.00 4.00 4.00 4.00 4.00 2.00 3.00	2.00 1.00 2.00 2.00 1.00 3.00 2.00 1.00	3.00 3.00 2.00 2.00 1.00 3.00 2.00 2.00	1.00 2.00 2.00 3.00 2.00 2.00 4.00				2. 3. 3. 3. 3. 3. 2. 2.	00 00 00 00 00 00 00	2.0 2.0 1.0 3.0 3.0 4.0 4.0	0 0 0 0 0 0 0	2.00 2.00 2.00 2.00 2.00 3.00 2.00 2.00	
2.00 2.00 3.00 2.00 2.00 2.00 1.00	5.00 4.00 4.00 4.00 3.00 3.00 3.00 2.00	4.00 2.00 3.00 2.00 2.00 3.00 2.00 2.00 2	2.00 4.00 4.00 4.00 4.00 2.00 3.00	1.00 2.00 2.00 1.00 3.00 2.00 1.00	3.00 3.00 2.00 1.00 3.00 2.00 2.00	2.00 2.00 3.00 2.00 2.00 4.00				3. 3. 3. 3. 3. 2. 2.	00 00 00 00 00 00 00	2.0 1.0 1.0 3.0 3.0 4.0	0 0 0 0 0 0	2.00 2.00 2.00 2.00 3.00 2.00 2.00 2.00	
2.00 3.00 3.00 2.00 2.00 2.00 1.00	4.00 4.00 4.00 3.00 3.00 3.00 2.00	2.00 3.00 2.00 2.00 3.00 2.00 2.00	4.00 4.00 4.00 4.00 2.00 3.00	2.00 2.00 1.00 3.00 2.00 1.00	2.00 2.00 1.00 3.00 2.00 2.00	2.00 2.00 3.00 2.00 2.00 4.00				3. 3. 3. 3. 2. 2.	00 00 00 00 00	1.0 1.0 3.0 3.0 4.0 4.0	0 0 0 0 0	2.00 2.00 2.00 3.00 2.00 2.00 2.00	
3.00 3.00 2.00 2.00 2.00 1.00	4.00 4.00 3.00 3.00 3.00 2.00	2.00 3.00 2.00 2.00 3.00 2.00 2.00	4.00 4.00 4.00 2.00 3.00	2.00 2.00 1.00 3.00 2.00 1.00	2.00 2.00 1.00 3.00 2.00 2.00	2.00 3.00 2.00 2.00 4.00				3. 3. 3. 2. 2.	00 00 00 00 00	1.0 3.0 3.0 4.0	0 0 0 0 0	2.00 2.00 3.00 2.00 2.00 2.00	
2.00 2.00 2.00 1.00	4.00 4.00 3.00 3.00 3.00 2.00	2.00 2.00 3.00 2.00 2.00	4.00 4.00 2.00 3.00	1.00 3.00 2.00 1.00	2.00 1.00 3.00 2.00 2.00	3.00 2.00 2.00 4.00				3. 3. 2. 2.	00 00 00 00	3.0 3.0 4.00 4.00	0 0 0	2.00 3.00 2.00 2.00 2.00	
2.00 2.00 2.00 1.00	4.00 3.00 3.00 3.00 2.00	2.00 2.00 3.00 2.00 2.00	4.00 4.00 2.00 3.00	3.00 2.00 1.00	3.00 2.00 2.00	2.00 2.00 4.00				3. 2. 2.	00 00 00	3.0 4.0 4.0	0 0 0	2.00 2.00 2.00	
2.00 2.00 1.00	3.00 3.00 3.00 2.00	2.00 3.00 2.00 2.00	2.00 3.00	2.00 1.00	2.00 2.00	2.00 4.00				2. 2.	00 00	4.0 4.0	0 0	2.00 2.00 2.00	
1.00	3.00 3.00 2.00	2.00 2.00	3.00	1.00	2.00	4.00				2.	00	4.0	0	2.00	
1.00	2.00	2.00	3.00	1.00	2.00									2.00	
1.00	2.00	2.00	0.00	2.00	2.00	1.00				4.	00	5.0	0	2.00	
1.00		2.00	3.00	2.00	2.00	2.00				3.	00	1.0	0	3.00	
3.00	3.00	2.00	3.00	2.00	2.00	2.00				2.	00	1.0	0	4.00	
3.00	3.00	4.00	3.00	2.00	2.00	2.00				2.	00	2.0	0	4.00	
2.00	3.00	2.00	4.00	1.00	2.00	2.00				3.	00	5.0	0	3.00	
3.00	3.00	2.00	3.00	1.00	1.00	1.00				4.	00	2.0	0	3.00	
1.00	2.00	1.00	2.00	2.00	2.00	2.00				4.	00	1.0	0	2.00	
2.00	2.00	2.00	2.00	2.00	2.00	2.00				2.	00	2.0	0	2.00	
3.00	2.00	2.00	2.00	1.00	1.00	2.00				3.	00	3.0	0	2.00	
2.00	2.00	2.00	3.00	1.00	1.00	3.00				4.	00	2.0	0	2.00	
3.00	3.00	2.00	2.00	2.00	2.00	3.00				4.	00	1.0	0	3.00	
-	3.00	2.00	3.00	2.00	2.00	2.00				4.	00	2.0	0	2.00	
3.00	2.00	2.00	4.00	2.00	2.00	1.00				2.	00	1.0	0	2.00	
	2.00 3.00 2.00 3.00 3.00 2.00	2.00       2.00         3.00       2.00         2.00       2.00         3.00       3.00         3.00       3.00         2.00       2.00	2.00       2.00       2.00         3.00       2.00       2.00         2.00       2.00       2.00         3.00       3.00       2.00         3.00       3.00       2.00         2.00       2.00       2.00	2.002.002.002.003.002.002.002.002.002.002.003.003.003.002.003.002.002.002.003.00	2.002.002.002.002.003.002.002.002.001.002.002.003.001.001.003.003.002.002.002.003.003.002.003.002.002.002.002.003.002.00	2.002.002.002.002.002.003.002.002.002.001.001.002.002.002.003.001.001.003.003.002.002.002.002.003.003.002.003.002.002.002.002.002.003.002.002.00	2.00       2.00       2.00       2.00       2.00       2.00         3.00       2.00       2.00       1.00       1.00       2.00         2.00       2.00       3.00       1.00       1.00       3.00         3.00       3.00       2.00       3.00       2.00       3.00         3.00       3.00       2.00       3.00       2.00       2.00         3.00       3.00       2.00       3.00       2.00       2.00         2.00       2.00       3.00       2.00       2.00       1.00	2.00 $2.00$ $2.00$ $2.00$ $2.00$ $3.00$ $2.00$ $2.00$ $1.00$ $1.00$ $2.00$ $2.00$ $2.00$ $3.00$ $1.00$ $1.00$ $3.00$ $2.00$ $3.00$ $2.00$ $2.00$ $3.00$ $3.00$ $3.00$ $3.00$ $2.00$ $2.00$ $2.00$ $3.00$ $3.00$ $2.00$ $3.00$ $2.00$ $2.00$ $2.00$ $2.00$ $2.00$ $4.00$ $2.00$ $2.00$ $1.00$	2.00 $2.00$ $2.00$ $2.00$ $2.00$ $3.00$ $2.00$ $2.00$ $1.00$ $2.00$ $2.00$ $2.00$ $3.00$ $1.00$ $2.00$ $2.00$ $2.00$ $3.00$ $1.00$ $3.00$ $3.00$ $3.00$ $2.00$ $2.00$ $3.00$ $3.00$ $3.00$ $2.00$ $2.00$ $2.00$ $3.00$ $2.00$ $3.00$ $2.00$ $2.00$ $2.00$ $2.00$ $4.00$ $2.00$ $2.00$ $1.00$ $1.00$ $1.00$ $1.00$	2.00       2.00       2.00       2.00       2.00       2.00         3.00       2.00       2.00       1.00       1.00       2.00         2.00       2.00       2.00       3.00       1.00       2.00         3.00       3.00       2.00       2.00       2.00       3.00         3.00       3.00       2.00       2.00       2.00       3.00         3.00       3.00       2.00       3.00       2.00       2.00         2.00       2.00       2.00       2.00       2.00       1.00	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2.00 $2.00$ $2.00$ $2.00$ $2.00$ $2.00$ $2.00$ $2.00$ $2.00$ $2.00$ $2.00$ $3.0$	2.00 $2.00$

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59 61	57	ភភ	53	51	49	47	45	43	41	39	37	ω 5	ယ္	31	29	27	25	23	21	19	17	15	13	11	9	7	сī	ω	<u> </u>
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Plea larg	Table A2 (continue)	inued )									علي Tre	
e or	Job position	Manager	Project manager	Manager	Expert	Expert	Supervisor		Proje	ct manager	Assistant manager Expe	rt Vice President
ite i ganiz	Q 36	3.00	2.00	1.00	3.00	2.00	2.00	2.00			r.me	2.00
this ar	Q 37	1.00	2.00	2.00	4.00	1.00	2.00	2.00			2.00 2.00 2.00	2.00
ticle a	Job position Gender	Manager Male	Project manager Female	Assistant manager Male	Project manager Male	Expert Male	Expert Male		Supervisor Female	Expert Female	Manager Male	Expert Male
as: 1 mati	Age	200	30	42	4/	40	33		40	37	36	30
M. B	QI	2.00	1.00	2.00	3.00	4.00	2.00		3.00	3.00	2.00	2.00
abae yste	Q 2	2.00	3.00	3.00	3.00	3.00	3.00		2.00	3.00	3.00	2.00
i, et ms (	Q 3	3.00	2.00	2.00	4.00	4.00	3.00		3.00	2.00	3.00	2.00
e al., 2015	Q 4	2.00	2.00	3.00	4.00	2.00	2.00		2.00	2.00	2.00	3.00
Cha ), ht	Q 5	2.00	3.00	3.00	2.00	3.00	3.00		2.00	3.00	1.00	1.00
llen; tp://	Q 6	1.00	2.00	2.00	3.00	4.00	4.00		1.00	3.00	2.00	2.00
ges dx.d	Q 7	2.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00	2.00	2.00
of E	Q 8	2.00	3.00	2.00	2.00	3.00	3.00		3.00	2.00	3.00	2.00
nterj g/10	Q 9	3.00	2.00	3.00	3.00	4.00	1.00		4.00	2.00	2.00	2.00
orise	Q 10	3.00	3.00	1.00	3.00	4.00	2.00		3.00	2.00	3.00	1.00
Res jj.is.	Q 11	3.00	1.00	3.00	4.00	3.00	3.00		2.00	3.00	4.00	2.00
2015	Q 12	3.00	1.00	2.00	3.00	4.00	4.00		1.00	3.00	2.00	2.00
e Pl	Q 13	3.00	1.00	2.00	4.00	4.00	2.00		4.00	3.00	2.00	2.00
anni	Q 14	2.00	2.00	2.00	4.00	4.00	2.00		3.00	3.00	2.00	3.00
ng i	Q 15	3.00	4.00	4.00	5.00	4.00	2.00		2.00	3.00	3.00	3.00
mple	Q 16	3.00	3.00	3.00	3.00	3.00	3.00		1.00	3.00	3.00	2.00
emer	Q 17	3.00	3.00	1.00	3.00	4.00	2.00		3.00	4.00	3.00	2.00
ıtatio	Q 18	4.00	2.00	3.00	2.00	2.00	4.00		3.00	4 00	4.00	2.00
on ii	Q 19	3.00	2.00	4.00	3.00	4.00	4.00		3.00	4.00	4.00	2.00
n Ira	Q 20	4.00	2.00	4.00	4.00	-1.00	4.00		2.00	4.00	4.00	1.00
n	Q 21	4.00	4.00	4.00	4.00	2.00	4.00		2.00	4.00	4.00	3.00

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59 61	55 57	53	51	49	47	45	₿	41	99	37	55	8	31	66	27	55	ü	21	[9]	17	5 U	ω	11	9	7	л	ω
Q 22	4.00	2.	.00		4.0	0		4.0	0		4.00			4.0	0		2.00		3.00				3.00			2.00	
0.23	4 00	3	00		3.0	0		3.0	0		3.00			4.0	0		2.00		3.00				ep 2.00			1.00	
0.24	2.00		.00		2.0	0		2.0	0		3.00			2.0	0		1.00		3.00				9.00			2.00	
0.25	2.00	4.	.00		2.0	0		1.0	0		2.00			2.0	0		1.00		2.00				<b>8</b> .00			2.00	
Q 25	3.00	4.	.00		2.0	0		1.0	0		3.00			2.0			3.00		3.00				<b>9</b> 3.00			2.00	
Q 26	2.00	2.	.00		3.0	0		3.0	0		3.00			2.0	0		3.00		3.00				3.00			3.00	
Q 27	3.00	3.	.00		3.0	0		3.0	0		3.00			3.0	0		2.00		3.00				4.00			2.00	
Q 28	4.00	2.	.00		4.0	0		4.0	0		2.00			3.0	0		3.00		2.00				2.00			1.00	
Q 29	3.00	4.	.00		3.0	0		3.0	0		2.00			3.0	0		1.00		2.00				2.00			2.00	
Q 30	3.00	4.	.00		2.0	0		2.0	0		4.00			3.0	0		2.00		2.00				2.00			2.00	
Q 31	4.00	2.	.00		1.0	0		3.0	0		4.00			4.0	0		3.00		2.00				2.00			1.00	
Q 32	4.00	4.	.00		1.0	0		3.0	0		3.00			4.0	0		3.00		2.00				3.00			1.00	
Q 33	2.00	3.	.00		2.0	0		3.0	0		3.00			3.0	0		3.00		3.00				2.00			2.00	
Q 34	3.00	4.	.00		2.0	0		4.0	0		2.00			4.0	0		2.00		2.00				2.00			2.00	
Q 35	4.00	4.	.00		2.0	0		3.0	0		2.00			4.0	0		3.00		3.00				3.00			2.00	
Q 36	4.00	4.	.00		3.0	0		4.0	0		2.00			4.0	0		2.00		2.00				3.00			2.00	
Q 37	4.00	3.	.00		3.0	0		3.0	0		2.00			4.0	0		3.00		2.00				2.00			2.00	
Job Positio	n Evnert	Assist	ant Ma	ingger	Man	ager		Fyp	ort		2.00 Pr	niect M	anager	Proi	ect Ma	nager	2.00 Assist	ant Ma	2.00	Ма	ngger		2.00 Expe	ərt	Fyne	rt	
Gender	Female	Male		ulagei	Fema	ale		Mal	e		M	ale	anagei	Male	2	mager	Male		anagei	Mal	le		Male	2	Fema	ile	
	40	48			59	0		52	0			00		57	0		40			37			33		28		
QI	4.00	4.00			5.0	0		5.0	0		4	.00		5.0	0		5.00			5.00	D		4.00		3.00		
Q 2	4.00	4.00			5.0	0		4.0	0		4	.00		4.0	0		3.00			3.00	D		4.00		4.00		
Q 3	4.00	3.00			5.0	0		4.0	0		4	.00		4.0	0		4.00			4.00	0		5.00		3.00		
Q 4	3.00	4.00			5.0	0		5.0	0		4	.00		5.0	0		3.00			4.00	0		4.00		2.00		
Q 5	3.00	3.00			5.0	0		4.0	0		4	.00		4.0	0		4.00			4.00	D		5.00		5.00		
Q 6	4.00	4.00			5.0	0		4.0	0		4	.00		5.0	0		4.00			3.00	D		5.00		5.00		
Q 7	3.00	4.00			4.0	0		3.0	0		4	.00		4.0	0		3.00			5.00	D		4.00		3.00		
Q 8	4.00	3.00			3.0	0		4.0	0		4	.00		3.0	0		4.00			4.00	D		5.00		4.00		

61	59	57	сл СЛ	53	51	49	47	45	43	41	39	37	ω	ω ω	31	29	27	25	23	21	19	17	15	13	11	9	7	сī	ω	1
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Job position	Manager	Project manager	Manager	Expert	Expert	Supervisor		Project manager	Assistant magger	Expert	Vice Presid
Q 9	4.00	1.00	5.00	3.00	5.00	5.00	4.00	4.00	er.m ه ۵۵	2.00	1
Q 10	5.00	2.00	5.00	5.00	5.00	4.00	2.00	5.00		2.00	,
Q 11	5.00	4.00	5.00	4.00	4.00	5.00	3.00	5.00		2.00	, ,
Q 12	4.00	4.00	5.00	5.00	3.00	5.00	4.00	3.00	5.00	4.00	, ,
Q 13	4.00	2.00	4.00	4.00	4.00	4.00	5.00	3.00	4.00	2.00	, ,
Q 14	4.00	2.00	5.00	4.00	5.00	3.00	5.00	3.00	5.00	3.00	,
Q 15	5.00	4.00	5.00	5.00	4.00	5.00	4.00	3.00	5.00	2.00	,
Q 16	5.00	4.00	5.00	5.00	3.00	3.00	5.00	3.00	5.00	4.00	'
Q 17	4.00	5.00	5.00	4.00	5.00	5.00	4.00	3.00	5.00	4.00	,
Q 18	4.00	4.00	5.00	5.00	4.00	4.00	3.00	3.00	5.00	3.00	)
Q 19	3.00	4.00	5.00	4.00	3.00	3.00	4.00	4.00	5.00	3.00	)
Q 20	2.00	3.00	5.00	3.00	3.00	2.00	3.00	5.00	5.00	3.00	)
Q 21	2.00	3.00	4.00	4.00	4.00	2.00	2.00	4.00	4.00	4.00	)
Q 22	2.00	2.00	1.00	4.00	3.00	3.00	3.00	4.00	4.00	3.00	)
Q 23	3.00	2.00	5.00	5.00	4.00	2.00	2.00	4.00	4.00	2.00	)
Q 24	4.00	3.00	5.00	5.00	5.00	3.00	3.00	5.00	5.00	2.00	)
Q 25	4.00	4.00	5.00	4.00	4.00	3.00	5.00	5.00	5.00	4.00	)
Q 26	3.00	3.00	5.00	4.00	4.00	4.00	4.00	4.00	5.00	4.00	1
Q 27	3.00	4.00	5.00	4.00	3.00	3.00	3.00	4.00	5.00	3.00	)
Q 28	5.00	3.00	5.00	5.00	5.00	5.00	4.00	4.00	5.00	2.00	1
Q 29	5.00	4.00	5.00	5.00	4.00	5.00	4.00	5.00	5.00	4.00	)
Q 30	5.00	4.00	5.00	5.00	5.00	5.00	4.00	4.00	5.00	5.00	)
Q 31	4.00	4.00	5.00	5.00	5.00	5.00	4.00	4.00	4.00	5.00	)
Q 32	5.00	5.00	5.00	5.00	4.00	5.00	4.00	3.00	4.00	4.00	)
Q 33	4.00	5.00	4.00	5.00	5.00	5.00	5.00	4.00	5.00	5.00	)
		4.00					3.00	4.00	4.00	4.00	)

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