

Some Aspects of Education Management in Iraq

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Ministry of Education/Iraq

Abstract

Schools with large number of students in any class/stage as in Iraq, and lots of subjects given need some sort of managements at all levels and aspects by using fast facilities such as computer program to save workload and time, in addition to avoid mistakes which were usually observed. The aim of this article was to develop Excel based program to solve the states of passing the examinations and failure according to the rules and ranges of degrees estimated by the responsible authorities. The program was applied at least for two rural schools with large number of students and different occasions of exam attempts.

Keywords: excel program, examination tests, Iraqi schools, student grade sheet

1. Introduction

Education in Iraq is administrated by the Ministry of Education. The Education was established in 1921. It includes public and private types. In 1970 became completely public and free at all levels, and mandatory at the primary level. However, still there are some international schools for private and foreign sectors. There are three stages of education; 6 years of compulsory primary education, secondary schools, which is divided into intermediary school (3 years), and final stage (3 years). To enter higher education, a national examination should be passed after the later school or stage. Iraqi graduates have enhanced knowledge of a complex subjects such as Chemistry, Physics, Mathematics (Algebra, Calculus), Biology and other scientific subjects.

2. Literature Review

It is well known that the information technology and computer usage in education managements has rapidly increased for its efficiency and effectiveness, and its main purpose and usage is to improve the efficiency of school office activities. It is used to store students and personnel data to get better accessibility to information and higher utilization of school resources, reduces of workload and better time management, in addition to get good quality reports^[1].

Different management systems were applied all over the world. Computers are seen to have the potential to make a significant contribution to the teaching and administration in schools to achieves the above purposes^[2].

Every country aims to provide their citizens with the most contemporary education in line of big advances in many aspects of life, in addition every school has its own specific needs^[1, 3, 4, 5]. Therefore, computerization of the school management is the basic subject of today's school management to meet the need for information and gaining superiority in completions' by directing strategies^[4].

It is obvious that making effective programs enhances the teaching process and enabling teachers to exchange their experiences in a more systematic way, working in teams, determining the needs of the students and supporting the school managers and other staff in doing their duties, developing their performances, effectiveness and efficiencies

^[6, 7], i.e., the information systems increase effectiveness and efficiency by saving time and facilitating development of alternative solutions for sophisticated problems and improve surveys and investigate the impact of policy initiatives as various forms of school supports^[8, 9].

3. Aim

The best start of computing system to data management is to build flexible database which can be explore and has a capacity for changes. So the aim of this work was to build up a database using information of two of Iraqi rural schools using Excel Package.

4. Methodology

An intermediate Iraqi school in the countryside (Al-Shaikh Alwan Al-Khalaf and Sa'ad bin Obada), at south of Baghdad city, which devoid of computers and other modern services. Intermediate school usually comprised of three classes. Information about students in these classes /stages were used to build the program and database.

- 1st class: the number 153, both males and females (13-15 years), having 10 courses during year.
- 2nd class: the number 67, both males and females (14-15 years), having 12 courses during year.
- 3rd class: the number 84, both males and females (15-17 years), having 12 courses during year.

The examination system composed of 1st attempt, which is considered as main and the most important, and the marks composed of seasons examines and quizzes (50%), and final examine (50%). In case of failure, the students can enter other attempt(s), probably one or two (this due to conflict conditions in the country).

The primary key in the database is the serial number given to each student, which can be used to navigate the database. The used information was for 2015-2016, 2016-2017 used in Excel package.


4.1 The code used is

- # is the serial number (primary key) to characterize the students starts from 1 for the first student

- ## is selector having values either 1 or 2 referring to the 1st and 2nd course respectively
- ### is a selector having values either 1 or 2 referring to the 1st and 2nd attempt respectively
- =Name is choose function with code “=CHOOSE(#,NamesB2,NamesB3,..... last cell)”
- =Class is choose function with the code “=CHOOSE(#,NamesC2,NamesC3,..... last cell)”
- =ID is choose function with the code “=CHOOSE(#,NamesD2,NamesD3,..... last cell)”
- A* is function with the code “=NamesG5”
- A** is function with the code “=NamesG2”
- A*** is a function with code “=NamesG3”
- =Course is function with the code “=CHOOSE(##,"Course I","Course II)”
- 1* to 12* is function with the code “=CHOOSE(#,lesson sheet G2,lesson sheet G3, last cell)”
- 1** to 12** is function with the code “=CHOOSE(#,lesson sheet H2,lesson sheet H3, last cell)”
- 1*** to 12*** is function with the code “=CHOOSE(#,lesson sheet I2,lesson sheet I3, last cell)”
- 1*# is function with the code “=IF(AND(1***<50,###=2),CHOOSE(#,Islamic J2,Islamic J3,..... last cell),”)
- The same code for the other lessons 2*# to 12*#
- 1**# is function with the code “=IF(AND(1***<50,###=2),CHOOSE(#,Islamic K2,Islamic K3,..... last cell),”)
- The same code for the other lessons 2**# to 12**#
- 1### has code “=IF(1***>=50,"Pass",IF(1***<50,"2nd Attempt",”))”
- The same code for the other lessons 2### to 12###
- 1### has code “=IF(AND(1***<50,###=2),IF(1**#>=50,"Pass",IF(1**#<50,"Fail",”)),”)
- The same code for the other lessons 2### to 12###
- =sum is a function with the code “=sum(1***:12***)
- =aver. is a function with the code “=average(1***:12***)
- @ is a function with the code “=COUNTIF(1***:12***,”>=50)”
- \$ is a function with the code “=CHOOSE(###,,”,(COUNTIF(1**#:12**#,”>=50)))”

- @@ is a function with the code “=COUNTIF(1***:12***,”<50)”
- \$\$ is a function with the code “=CHOOSE(###,,”,(COUNTIF(1**#:12**#,”<50)))”
- =Name of manager is function with the code “=Names G4” as shown in the following:

Republic of Iraq
Ministry of Education

A***  **Grade Sheet**

Year **A***
A**

No. : **#** Corss **##**
Attempt **###**

Name: **=Name**

Class & Stage **=Class**

ID: **=ID**

=Course								
No.	Lessons	Course Average (50%)	Course Exam 1st attempt (50%)	Final Mark 1st attempt (100%)	Course Exam 2nd attempt (50%)	Final Mark 2nd attempt (100%)	Grade 1st Attempt	Grade 2nd Attempt
1	Islamic Edu.	1*	1**	1***	1*#	1**#	1###	1###
2	Arabic Lang.	2*	2**	2***	2*#	2**#	2###	2###
3	English Lang.	3*	3**	3***	3*#	3**#	3###	3###
4	History	4*	4**	4***	4*#	4**#	4###	4###
5	Geography	5*	5**	5***	5*#	5**#	5###	5###
6	Honland Culture	6*	6**	6***	6*#	6**#	6###	6###
7	Mathematics	7*	7**	7***	7*#	7**#	7###	7###
8	Physics	8*	8**	8***	8*#	8**#	8###	8###
9	Biology	9*	9**	9***	9*#	9**#	9###	9###
10	Chemistry	10*	10**	10***	10*#	10**#	10###	10###
11	Arts	11*	11**	11***	11*#	11**#	11###	11###
12	Physical Edu.	12*	12**	12***	12*#	12**#	12###	12###
1st Attempt	Sum	=sum	Grade		2nd Attempt			Grade
	Average	=Aver.	=Grade					
	Pass with	@	Lessons			Pass with	\$	Lessons
	Fail with	@@	Lessons			Fail with	\$\$	Lessons
Signature				Mobile				\$\$\$

=Name of Manager
Manager

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No.	Name	Stage- Class	ID	Phone No.	Year	School	Name of manager	Stage
1	Ahmed Haider Adil	2-A	64	07812323441	2017 - 2016	Shaikh Alwan Al-Khalaf	Suhail N. Abdullah	Secondary School
2	Ahmed Hadi Abdullah	2-A	124	07903744222				
3	Ayoub Mohamed Ali	2-A	156	07905698718				
4	Habeeb Yehia Abdullah	2-A	70	07819192008				
5	Husein Ali Husein	2-A	186	07811273476				
6	Hamza Husein Alwan	2-A	184	07822952506				
7	Khadeeja Hameed Majeed	2-A	132	07812345613				
8	Dalail Fadhil Ibrahim	2-A	133	07817748393				
9	Hajad Mohamed Abd-ali	2-A	135	07821006711				
10	Salwa Najim Abdulla	2-A	137	07800172471				
11	Shaheen Hatem Ibrahim	2-A	78	0780560437				
12	Shatha Musa Abdulla	2-A	138	07803973952				
13	Naa Faisal Auda	2-A	113	07818375546				
14	Ali Hatim Kareem	2-A	164	07800136213				
15	Ali Khudhair Salman	2-A	165	07822559236				
16	Ali Shihab Medan	2-A	180	07804634139				
17	Ali Mohamed Khudair	2-A	86	07905357347				
18	Amad ...	2-A				

Names Islamic Arabic English History Geography Cultural Maths Physics Biology Chemistry

Primary key Courses

5. Results and Discussion

The program was applied to present the results as shown in the following figures:

1. Student pass from the first attempt, the result will appear as below

No.	Lessons	Course Average (50%)	Course Exam 1st attempt (50%)	Final Mark 1st attempt (100%)	Course Exam 2nd attempt (50%)	Final Mark 2nd attempt (100%)	Grade 1st Attempt	Grade 2nd Attempt	
1	Islamic Edu.	32	43	75			Pass		
2	Arabic Lang.	38	33	71			Pass		
3	English Lang.	25	25	50			Pass		
4	History	41	46	87			Pass		
5	Geography	42	49	91			Pass		
6	Homeland Culture	40	45	85			Pass		
7	Mathematics	29	30	59			Pass		
8	Physics	44	46	90			Pass		
9	Biology	38	50	88			Pass		
10	Chemistry	43	25	68			Pass		
11	Arts	50	50	100			Pass		
12	Physical Edu.	50	50	100			Pass		
1st Attempt	Sum	964	Grade		2nd Attempt	Grade			
	Average	80.3	Pass			Pass			
	Pass with	12	Lessons			Pass with	0	Lessons	
	Fail with	0	Lessons			Fail with	0	Lessons	

Signature Mobile 07903744222

Suhail N. Abdullah Manager

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Fig 1: Results for passing the examination from the first attempt.

This student will have no result when call the function of second attempt as shown

No.	Lessons	Course Average (50%)	Course Exam 1st attempt (50%)	Final Mark 1st attempt (100%)	Course Exam 2nd attempt (50%)	Final Mark 2nd attempt (100%)	Grade 1st Attempt	Grade 2nd Attempt	
1	Islamic Edu.	32	43	75			Pass		
2	Arabic Lang.	38	33	71			Pass		
3	English Lang.	25	25	50			Pass		
4	History	41	46	87			Pass		
5	Geography	42	49	91			Pass		
6	Homeland Culture	40	45	85			Pass		
7	Mathematics	29	30	59			Pass		
8	Physics	44	46	90			Pass		
9	Biology	38	50	88			Pass		
10	Chemistry	43	25	68			Pass		
11	Arts	50	50	100			Pass		
12	Physical Edu.	50	50	100			Pass		
1st Attempt	Sum	964	Grade		2nd Attempt	Grade			
	Average	80.3	Pass			Pass			
	Pass with	12	Lessons			Pass with	0	Lessons	
	Fail with	0	Lessons			Fail with	0	Lessons	

Signature Mobile 07903744222

Suhail N. Abdullah Manager

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Fig 2: Results for passing the examination from the first attempt, No sign for the second attempt.

2. Student has to perform second attempt due to failure in the first attempt, the result will appear as follows

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Ministry of Education

Shaikh Alwan Al-Khalaf **Grade Sheet**
Secondary School
Year 2017 - 2016

No. : 1
Name: Ahmed Haider Adil
Class & Stage: 2-A
ID: 64

Corss 1
Attempt 1

Course I								
No.	Lessons	Course Average (50%)	Course Exam 1st attempt (50%)	Final Mark 1st attempt (100%)	Course Exam 2nd attempt (50%)	Final Mark 2nd attempt (100%)	Grade 1st Attempt	Grade 2nd Attempt
1	Islamic Edu.	25	27	52			Pass	
2	Arabic Lang.	16	23	39			2nd Attempt	
3	English Lang.	17	11	28			2nd Attempt	
4	History	11	20	31			2nd Attempt	
5	Geography	12	13	25			2nd Attempt	
6	Homeland Culture	19	19	38			2nd Attempt	
7	Mathematics	17	13	30			2nd Attempt	
8	Physics	16	7	23			2nd Attempt	
9	Biology	20	18	38			2nd Attempt	
10	Chemistry	23	15	38			2nd Attempt	
11	Arts	45	45	90			Pass	
12	Physical Edu.	45	45	90			Pass	
1st Attempt	Sum	522	Grade		2nd Attempt			Grade
	Average	43.5	2nd Attempt					Fail
	Pass with	3 Lessons				Pass with	3 Lessons	
	Fail with	9 Lessons				Fail with	9 Lessons	

Signature: _____ Mobile: 07812323441
Suhail N. Abdullah
Manager

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Fig 3: Results for student has <50% as cutoff value (Failure) in the first attempt.

Republic of Iraq
Ministry of Education

Shaikh Alwan Al-Khalaf **Grade Sheet**
Secondary School
Year 2017 - 2016

No. : 1
Name: Ahmed Haider Adil
Class & Stage: 2-A
ID: 64

Corss 1
Attempt 2

Course I								
No.	Lessons	Course Average (50%)	Course Exam 1st attempt (50%)	Final Mark 1st attempt (100%)	Course Exam 2nd attempt (50%)	Final Mark 2nd attempt (100%)	Grade 1st Attempt	Grade 2nd Attempt
1	Islamic Edu.	25	27	52			Pass	
2	Arabic Lang.	16	23	39	35	51	2nd Attempt	Pass
3	English Lang.	17	11	28	15	32	2nd Attempt	Fail
4	History	11	20	31	28	39	2nd Attempt	Fail
5	Geography	12	13	25	39	51	2nd Attempt	Pass
6	Homeland Culture	19	19	38	38	57	2nd Attempt	Pass
7	Mathematics	17	13	30	15	32	2nd Attempt	Fail
8	Physics	16	7	23	34	50	2nd Attempt	Pass
9	Biology	20	18	38	18	38	2nd Attempt	Fail
10	Chemistry	23	15	38	16	32	2nd Attempt	Fail
11	Arts	45	45	90			Pass	
12	Physical Edu.	45	45	90			Pass	
1st Attempt	Sum	522	Grade		2nd Attempt			Grade
	Average	43.5	2nd Attempt					Fail
	Pass with	3 Lessons				Pass with	3 Lessons	
	Fail with	9 Lessons				Fail with	5 Lessons	

Signature: _____ Mobile: 07812323441
Suhail N. Abdullah
Manager

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Fig 4: Results for student has <50% as cutoff value (Failure) in the first and second attempts.

In addition, the program can be directed to use color code as desired, as shown in the following figure

A	B	C	D	E	F	G	H	I	J	K	L	M
No	Name	Stage - Class	1st month (10%)	1st month (15%)	2nd month (10%)	2nd month (15%)	Course Average (50%)	Course Exam 1st attempt (50%)	Final Mark 1st attempt (100%)	Course Exam 2nd attempt (50%)	Final Mark 2nd attempt (100%)	
1	1 Ahmed Haider Adil	2-A	5	1	5	5	16	7	23	34	50	
2	2 Ahmed Hadi Abdullah	2-A	10	12	9	13	44	46	90		44	
3	3 Ayoob Mohamed Ali	2-A	8	8	7	9	32	33	65		32	
4	4 Habeeb Yehia Abdullah	2-A	5	5	5	5	20	34	54		20	
5	5 Husein Ali Husein	2-A	5	5	5	7	22	27	49	30	52	
6	6 Hamza Husein Alwan	2-A	5	4	5	5	19	27	46	22	41	
7	7 Khadeeja Hameed Majeed	2-A	10	10	9	7	36	31	67		36	
8	8 Dalal Fadhil Ibrahim	2-A	10	11	9	9	39	31	70		39	
9	9 Sajad Mohamed Abd-ali	2-A	10	13	9	12	44	40	84		44	
10	10 Salwa Najim Abdulla	2-A	5	2	5	6	18	13	31	15	33	
11	11 Shaheen Hatem Ibrahim	2-A	6	8	7	7	28	39	67		28	
12	12 Shatha Musa Abdulla	2-A	9	9	9	10	37	31	68		37	
13	13 Alaa Faisal Auda	2-A	6	6	7	8	27	24	51		27	
14	14 Ali Hatim Kareem	2-A	9	10	8	8	35	41	76		35	
15	15 Ali Khudhair Salman	2-A	10	15	9	11	45	49	94		45	
16	16 Ali Shihab Medan	2-A	5	5	5	5	20	19	39	20	40	
17	17 Ali Mohamed Khudair	2-A	6	8	5	6	25	30	55		25	
18	18 Emad Issa Abdulla	2-A	7	5	8	5	25	38	63		25	
19	19 Edan Hussein Alwan	2-A	7	4	6	8	25	19	44	20	45	

Names Islamic Arabic English History Geography Cultural Maths. **Physics**

Fig 5: Color code for assigned values; Pink and light green for half the degree (50): The pink for degrees less than the threshold (i.e., Half the degree), light green indicates passing the threshold. Red and clear green used for the full degree (100), the green for passing case, red for failure.

In addition, the program can be used for final checking, with minimum or no mistakes. The results can be presented in one page

Course I \ First attempt		2016-2017																				Al-Shaikh Alwan Al-Khalaf School															
No	Name	Islamic Edu. 50	Islamic Edu. 50	Islamic Edu. 100	Arabic 50	Arabic 50	Arabic 100	English 50	English 50	English 100	History 50	History 50	History 100	Geography 50	Geography 50	Geography 100	Home land culture 50	Home land culture	Home land culture	Mathematics 50	Mathematics 50	Mathematics 100	Physics 50	Physics 50	Physics 100	Biology 50	Biology 50	Biology 100	Chemistry 50	Chemistry 50	Chemistry 100	Physical Edu. 50	Physical Edu. 50	Physical Edu. 100	Arts 50	Arts 50	Arts 100
1	Ahmed Haider Adil	25	27	52	16	24	40	17	11	28	11	20	31	12	13	25	19	24	43	17	13	30	16	7	23	20	18	38	23	15	38	45	45	90	45	45	90
2	Ahmed Hadi Abdullah	32	43	75	38	33	71	25	25	50	41	46	87	42	49	91	40	45	85	29	30	59	44	46	90	38	50	88	43	25	68	50	50	100	50	50	100
3	Ayoub Mohamed Ali	29	39	68	21	30	51	26	21	47	27	34	61	28	38	66	28	33	61	34	23	57	32	33	65	26	37	63	38	34	72	45	45	90	45	45	90
4	Habeeb Yehia Abdullah	34	40	74	26	34	60	17	19	36	19	40	59	25	42	67	29	42	71	17	23	40	20	34	54	31	42	73	24	37	61	45	45	90	45	45	90
5	Husein Ali Husein	23	39	62	27	31	58	17	17	34	33	35	68	21	42	63	30	37	67	25	28	53	22	27	49	21	40	61	28	37	65	45	45	90	45	45	90
6	Hamza Husein Alwan	19	41	60	22	31	53	19	23	42	17	44	61	25	41	66	26	34	60	25	21	46	19	27	46	20	44	64	27	23	50	45	45	90	45	45	90
7	Khadeeja Hameed Majeed	31	45	76	35	37	72	21	18	39	18	42	60	30	42	72	33	37	70	25	16	41	36	31	67	32	44	76	33	33	66	45	45	90	45	45	90
8	Dalail Fadhil Ibrahim	34	44	78	33	31	64	25	24	49	36	48	84	39	43	82	41	45	86	31	30	61	39	31	70	33	45	78	39	30	69	45	45	90	45	45	90
9	Sajad Mohamed Abd-ali	36	49	85	43	40	83	27	31	58	45	44	89	42	42	84	40	35	75	38	41	79	44	40	84	44	47	91	37	45	82	50	50	100	50	50	100
10	Salwa Najim Abdulla	36	28	64	25	25	50	19	18	37	18	39	57	21	37	58	25	33	58	28	15	43	18	13	31	22	35	57	24	31	55	45	45	90	45	45	90
11	Shaheen Hatem Ibrahim	35	40	75	29	28	57	23	16	39	28	46	74	28	43	71	38	46	84	17	26	43	28	39	67	35	44	79	30	36	66	45	45	90	45	45	90
12	Shatha Musa Abdulla	30	44	74	29	30	59	24	23	47	35	45	80	30	39	69	36	39	75	17	25	42	37	31	68	28	41	69	31	27	58	45	45	90	45	45	90
13	Alaa Faisal Auda	26	42	68	28	30	58	22	15	37	16	29	45	29	34	63	26	31	57	19	29	48	27	24	51	25	29	54	30	30	60	45	45	90	45	45	90
14	Ali Hatim Kareem	36	41	77	33	30	63	30	26	56	40	48	88	35	44	79	35	50	85	32	33	65	35	41	76	30	39	69	29	23	52	50	50	100	50	50	100
15	Ali Khudhair Salman	44	44	88	43	34	77	35	32	67	47	50	97	44	47	91	40	49	89	35	36	71	45	49	94	44	45	89	44	42	86	50	50	100	50	50	100
16	Ali Shihab Medan	27	33	60	28	29	57	20	15	35	26	34	60	25	39	64	36	34	70	25	29	54	20	19	39	25	34	59	37	31	68	45	45	90	45	45	90
17	Ali Mohamed Khudair	31	45	76	29	31	60	17	14	31	21	38	59	27	31	58	36	39	75	25	32	57	25	30	55	31	48	79	29	37	66	45	45	90	45	45	90
18	Enad Issa Abdulla	27	33	60	25	24	49	17	22	39	17	48	65	22	40	62	26	34	60	25	22	47	25	38	63	25	45	70	30	36	66	45	45	90	45	45	90
19	Edan Hussain Alwan	27	31	58	26	28	54	19	19	38	12	31	43	16	33	49	25	33	58	15	21	36	25	19	44	20	34	54	22	27	49	45	45	90	45	45	90
20	Fatima Shihab Medan	27	40	67	27	28	55	20	21	41	18	43	61	23	46	69	31	34	65	21	19	40	20	22	42	29	42	71	30	31	61	45	45	90	45	45	90
21	Kamal Maher Husein	22	34	56	22	23	45	17	14	31	20	28	48	25	33	58	26	42	84	15	17	32	18	15	33	21	33	54	25	23	48	45	45	90	45	45	90
22	Latih Taha Najim	34	41	75	32	25	57	16	24	40	34	50	84	25	39	64	35	47	82	17	17	34	23	33	56	25	49	74	24	38	62	45	45	90	45	45	90
23	Layla Hatem Kareem	27	36	63	32	30	62	28	26	54	25	46	71	35	46	81	32	42	74	25	19	44	25	27	52	29	44	73	25	36	61	45	45	90	45	45	90
24	Mohamed Harbi Ali	25	42	67	25	30	55	20	18	38	22	26	48	21	32	53	30	40	70	25	18	43	26	24	50	30	39	69	31	29	60	45	45	90	45	45	90
25	Mohamed Rahman Abdulla	32	44	76	29	28	57	21	18	39	25	24	49	22	34	56	30	36	66	25	20	45	25	21	46	27	33	60	30	29	59	45	45	90	45	45	90
26	Mahmoud Mohamed Fayad	25	30	55	19	27	46	20	12	32	18	29	47	26	28	54	18	26	44	20	13	33	16	24	40	20	28	48	27	20	43	45	45	90	45	45	90
27	Marwan Thamer Khudair	32	37	69	26	26	52	19	17	36	28	35	63	27	38	65	34	32	66	26	21	47	28	20	48	30	37	67	27	22	49	45	45	90	45	45	90
28	Mustafa Aref Mustafa	30	39	69	32	29	61	24	24	48	19	27	46	28	31	59	25	32	57	21	28	49	29	29	58	21	41	62	27	27	54	45	45	90	45	45	90
29	Mutaz Mtasher Muthan	39	45	84	40	32	72	29	30	59	45	50	95	41	44	85	44	49	93	47	30	77	46	45	91	44	49	93	45	44	89	45	45	90	45	45	90
30	Walid Yaseen Khudair	26	37	63	33	31	64	22	24	46	35	41	76	31	45	76	33	40	73	15	19	34	29	41	70	28	42	70	37	34	71	45	45	90	45	45	90
31	Younis Salman Kudair	19	31	50	28	24	52	22	18	40	26	21	47	20	25	45	28	35	63	30	31	61	21	19	40	20	26	46	27	28	55	45	45	90	45	45	90

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Fig 6: Over all checking statement.

Such program and database can be manipulated and used for other student’s societies to facilitate the managements in the Ministry of Education and allele authorities, especially in the capital schools which usually more crowded comparing to the outside areas.

6. Conclusion

The program or the system was applied for years, 2015-2016 and first semester of 2017. It was very efficient in getting the output very fast. The program can be used for other purposes and other people groups. It was performed to be adopted by the Ministry of Education.

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