

## INFORMATION TECHNOLOGY: PAPER II

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### INSTRUCTIONS TO TEACHERS

1. For the examination requirements for Information Technology please read pages 2–8 of the *Subject Assessment Guidelines*.
2. The school will receive a data disk containing files for the examination. These should be checked by the Information Technology teacher two days before the examination. Please refer to the instructions concerning data files supplied on page 4. Copies of the data are provided later in this document for your reference.
3. Do not open the sealed envelopes containing the examination papers and marking guidelines until the day of the examination.
4. Each candidate must be supplied with a disk (or space on a network drive) for his/her exclusive use throughout the examination.
  - (a) No candidate may have access to another candidate's work during the examination.
  - (b) Disable any shared folders on the network.
  - (c) Ensure that the candidates cannot use their own flash drives or memory sticks. If your candidates normally use usernames and passwords then create a new username for each candidate.
5. Please ensure that the machines have been checked and all extraneous data/programs have been removed. Disable communications programs that will allow chatting or messaging. Ensure that no communication can take place between machines.
6. No candidate may access the Internet during the examination.
7. Information Technology teachers are allowed to invigilate the Information Technology examinations in case there are problems with the hardware and system software. Obviously, they may not assist the candidates in any way with their particular program(s).

8. The candidates may use the help facility that has been supplied with the programming language's software. They may not use any other manuals or documentation. In the case of Java, they may use the standard APIs available on the java.sun.com site. These should be downloaded **before** the examination and copied onto each candidate's disk space provided for the examination.
9. The three hours of the examination does not include printing time. It is exclusively for coding. At the end of the three hours, printing must be done either by the candidates, or if conditions are not suitable for this, by the Information Technology teacher. No code or data may be altered after the three-hour period has expired.
10. Teachers must inform their candidates what printing arrangements have been made at their school.
11. In case of a power failure or other technical interruption, all candidates must remain silent and under examination conditions. Once the interruption has passed, candidates will have only the time that was remaining when the interruption began. No candidate may receive extra time to compensate for work lost from not saving prior to the interruption.
12. Please note that the Information Technology question paper has been divided into two sections: the first is for Structured Query Language (SQL) and the second for Object-Oriented Programming. The two sections may be answered in any order and are independent of each other.
13. **INSTRUCTIONS FOR MARKING AND SUBMITTING THIS PRACTICAL EXAMINATION WILL BE GIVEN ALONG WITH THE FINAL MARKING GUIDELINES, WHICH ARE RELEASED AFTER THE EXAMINATION. PLEASE PAY CLOSE ATTENTION TO THIS DOCUMENT WHEN IT IS RELEASED.**
14. **PLEASE NOTE THAT DATES MAY NOT APPEAR IN THE FORMAT SPECIFIED IN THIS DOCUMENT OR THE EXAMINATION PAPER GIVEN TO CANDIDATES. THE FORMAT IN WHICH DATES ARE DISPLAYED IS DEPENDANT ON THE DATE/TIME AND REGIONAL SETTINGS ON INDIVIDUAL COMPUTERS. IT IS ADVISED THAT THE COMPUTERS THAT THE CANDIDATES ARE USING DURING THE EXAMINATION HAVE THEIR DATE/TIME FORMAT SET TO YYYY-MM-DD IN ORDER TO ENSURE CONSISTENCY WITH THE EXAMINATION PAPER.**

**CIRCULAR NO. 67/2017**

**6 June 2017**

**TO: PRINCIPALS OF SCHOOLS ENTERING CANDIDATES FOR THE 2017  
NATIONAL SENIOR CERTIFICATE EXAMINATION**

**INFORMATION TECHNOLOGY PRACTICAL EXAMINATION (IT PAPER II)**

**Submission of the practical examinations for moderation**

The Information Technology: Paper II (Practical Examination) is scheduled for Friday, 20 October 2017, from 9:00 to 12:00. On completion of the examination:

1. It will be the IT teachers' responsibility to ensure that all the candidates' data is placed on the two barcoded CDs that will be provided by the IEB.
2. Each candidate should have their own folder on the CDs, with their examination number as the name of the folder and all files need to be contained within.
3. A backup must also be made and kept at the school on relevant storage media, until 28 February 2018, to allow for the re-mark process to be complete.
4. The two barcoded CD disks need to be placed in the padded envelope provided by the IEB and locked in the electronic examinations bag by no later than 17:00 on Friday, 20 October 2017.
5. The two barcoded CDs and the padded envelope will be sent to the schools in the delivery that includes the IT Practical Final Examination.
6. **The marking of the examination will remain at school level in 2017, and the moderation at the IEB National level. The draft marking guidelines will be placed on the IEB website 24 hours after the examination is written.**
7. **Please note that this is the last year that marking will take place at school level. From 2018, the IT Practical examination will be marked at National level. A marking panel will thus be appointed for the marking of the IT Practical examination.**
8. The IT teachers are to ensure that they have attended the cluster group meetings and have used the updated mark schemes to mark all the practical examinations. The marked practical examinations and the **updated** mark sheet for **each candidate** are to be returned to the IEB together with the year-end IT Theory Paper 1. They must be clearly marked IT Theory Paper 2 and placed in an envelope marked with the school's name.
9. The schools are required to enter their results online by Friday, 10 November.

Please bring the contents of this circular to the attention of your IT teachers and also to the Chief Invigilator of the school.

**Helen Sidiropoulos**  
**Assessment Specialist**

**Margie Luckay**  
**Senior Manager: Support Services**

## **TO THE TEACHER RESPONSIBLE FOR CANDIDATES IN THE INFORMATION TECHNOLOGY PRACTICAL EXAMINATION**

### **INSTRUCTIONS CONCERNING DATA FILES SUPPLIED ON DISK**

You have been supplied with files on a CD. It is the responsibility of the Information Technology teacher to check **two days before the examination** that they can open the files and that the files can be read by the relevant applications. Printouts of the files are given, starting on the page following in this document. The details of the files are as follows:

**Files for Learners: Please consult the folders on the CD. These are the important files only.**

#### **Section A:**

- InstaPageDB.mdb
- InstaPageDB.sql (MySQL import)
- SQL Answer Sheet.rtf
- SQL Browser

#### **Section B:**

- data.txt

If you have any problems with accessing the files on disk, please notify the IEB immediately.

Individual copies of these files will be required by each candidate writing the Information Technology Practical Examination. Please copy the relevant files onto a disk for each candidate's exclusive use, or onto the disk space that will be used exclusively by each candidate.

The candidates are asked, in the question paper, to create backups of these files. However, it may be wise to keep a fresh set of these files on a flash drive so that copies may be quickly distributed to candidates who might alter their files and not have a backup to restore from.

Teachers are advised to supply only those files that are needed for the pupils in their centre (don't supply the MySQL files if your candidates are writing with Access or vice versa).

Confidentiality is of the utmost importance. Under no circumstances should candidates have access to these files before the examination.

**After the examination**, create a folder for each candidate using their name and examination number. Copy ALL the candidate's files into their particular folder. Be sure to include the data files that are accessed by the program. Ensure that the candidates have not used path names for the data files in their programs. If candidates have used full path names, the files sent to the IEB must reflect this. Copy these files to the TWO CD's provided and attach the barcode label to each CD. Each CD should contain an exact copy of all candidates' work as it existed when the examination finished. These CDs should be sealed in the electronically locked bags within 2 hours after the end of the examination.

## FILES FOR LEARNERS

The following pages contain the hard-copy printouts of the data supplied to each of the candidates.

### SECTION A

#### InstaPageDB.mdb

tblProfiles					
ProfileID	Username	Fullname	Email	Privacy	DailyPostRate
1	kmoore0	Kenneth Moore	kmoore0@mashable.com	public	24.2
2	sberry1	Stephanie Berry	sberry1@unesco.org	public	11.9
3	ahernandez2	Ashley Hernandez	ahernandez2@psu.edu	private	6.5
4	lrui3	Lillian Ruiz	lrui3@nhs.uk	private	13.9
5	jl Larson4	Jimmy Larson	jl Larson4@cafepress.com	public	18.4
6	showard5	Sara Howard	showard5@surveymonkey.com	private	19.2
7	jtaylor6	James Taylor	jtaylor6@mlb.com	public	14.2
8	cphillips7	Charles Phillips	cphillips7@google.pl	public	11.1
9	jfreeman8	Jeremy Freeman	jfreeman8@ovh.net	private	1.6
10	sortiz9	Shawn Ortiz	sortiz9@csmonitor.com	public	10.1
11	enelsona	Emily Nelson	enelsona@miitbeian.gov.cn	private	4.7
12	hadamsb	Henry Adams	hadamsb@vk.com	public	24.7
13	emorris	Earl Morris	emorris@freewebs.com	private	18.9
14	mevansd	Matthew Evans	mevansd@skype.com	private	21.3
15	ccoopere	Craig Cooper	ccoopere@yandex.ru	private	23.5
16	mbellf	Mildred Bell	mbellf@merriam-webster.com	private	11.8
17	jreyesg	Joan Reyes	jreyesg@cocolog-nifty.com	private	10.6
18	tpattersonh	Thomas Patterson	tpattersonh@delicious.com	public	5.9
19	grosei	Gregory Rose	grosei@blogspot.com	private	5.5
20	jjohnsonj	Johnny Johnson	jjohnsonj@addtoany.com	private	5.8
21	jrивerak	Jose Rivera	jrивerak@buzzfeed.com	public	14.4
22	dsullivanl	Denise Sullivan	dsullivanl@rediff.com	public	20.1
23	charrisonm	Cheryl Harrison	charrisonm@prweb.com	public	9.3
24	jdixonn	James Dixon	jdixonn@hubpages.com	private	8.9
25	njohnstono	Norma Johnston	njohnstono@ycombinator.com	public	7
26	mlongp	Mary Long	mlongp@wix.com	public	6
27	akimq	Ann Kim	akimq@ucsd.edu	public	14.7
28	nhamiltonr	Nancy Hamilton	nhamiltonr@cargocollective.com	private	17.6
29	progerss	Patricia Rogers	progerss@cargocollective.com	private	18.1
30	jrayt	Juan Ray	jrayt@dedecms.com	private	18.2
31	kstanleyu	Kathryn Stanley	kstanleyu@ox.ac.uk	private	19.9
32	bmccoyv	Brandon Mccoy	bmccoyv@newsvine.com	public	17.6
33	egrayw	Eugene Gray	egrayw@cbslocal.com	private	5.6
34	wlawsonx	Willie Lawson	wlawsonx@accuweather.com	private	14.4
35	ejordany	Eric Jordan	ejordany@hostgator.com	private	19.4
36	twoodz	Thomas Wood	twoodz@cafepress.com	public	17.6
37	gcampbell10	Gary Campbell	gcampbell10@nydailynews.com	private	16.1
38	pgordon11	Patricia Gordon	pgordon11@4shared.com	private	9.6
39	jnguyen12	Jesse Nguyen	jnguyen12@list-manage.com	public	2.4
40	tjohnston13	Teresa Johnston	tjohnston13@statcounter.com	private	11.8
41	fsimpson14	Fred Simpson	fsimpson14@geocities.com	private	22.4
42	ldaniels15	Laura Daniels	ldaniels15@alibaba.com	public	14.1
43	rgardner16	Rebecca Gardner	rgardner16@gmpg.org	public	9.3
44	jmontgomery17	Jeremy Montgomery	jmontgomery17@home.pl	public	15.5
45	kjones18	Kathy Jones	kjones18@zdn.net	public	4.3

tblProfiles					
ProfileID	Username	Fullname	Email	Privacy	DailyPostRate
46	jmartin19	Jack Martin	jmartin19@zimbio.com	public	9
47	amason1a	Angela Mason	amason1a@cnet.com	public	7.7
48	mgarza1b	Margaret Garza	mgarza1b@prweb.com	public	20.9
49	jlane1c	Jack Lane	jlane1c@pbs.org	private	1.3
50	eporter1d	Emily Porter	eporter1d@prnewswire.com	private	21.6
51	awalker1e	Adam Walker	awalker1e@xinhuanet.com	private	16.5
52	jflores1f	Jimmy Flores	jflores1f@loc.gov	public	7
53	jstevens1g	Jesse Stevens	jstevens1g@indiegogo.com	private	16.2
54	tdean1h	Todd Dean	tdean1h@usda.gov	private	4.3
55	wspencer1i	Walter Spencer	wspencer1i@aol.com	public	11.1
56	jpeterston1j	Jeffrey Peterson	jpeterston1j@adobe.com	public	22.1
57	djordan1k	Diana Jordan	djordan1k@shop-pro.jp	private	2.2
58	rbarnes1l	Ryan Barnes	rbarnes1l@usda.gov	private	4.2
59	jgarcia1m	James Garcia	jgarcia1m@cisco.com	private	24.4
60	sperkins1n	Sarah Perkins	sperkins1n@wix.com	private	15.1
61	pgordon1o	Paul Gordon	pgordon1o@trellian.com	private	7.7
62	mhart1p	Michelle Hart	mhart1p@berkeley.edu	private	18.9
63	dperez1q	Denise Perez	dperez1q@ow.ly	private	3.4
64	rhill1r	Ralph Hill	rhill1r@amazon.de	private	14.9
65	mmurphy1s	Marilyn Murphy	mmurphy1s@sohu.com	public	13.6
66	rjames1t	Russell James	rjames1t@addtoany.com	private	17.1
67	hdean1u	Harold Dean	hdean1u@marriott.com	private	7.7
68	jwells1v	Janice Wells	jwells1v@europa.eu	private	4.4
69	lpalmer1w	Lori Palmer	lpalmer1w@hhs.gov	public	3.8
70	dparker1x	Douglas Parker	dparker1x@dedecms.com	private	4.7
71	rlawson1y	Randy Lawson	rlawson1y@livejournal.com	private	16.2
72	cfreeman1z	Charles Freeman	cfreeman1z@seattletimes.com	public	23.1
73	kbowman20	Kevin Bowman	kbowman20@hibu.com	public	22.4
74	lfernandez21	Larry Fernandez	lfernandez21@hatena.ne.jp	private	18.8
75	grogers22	Gerald Rogers	grogers22@imageshack.us	public	12.2
76	jdixon23	Joe Dixon	jdixon23@dailymail.co.uk	private	16.7
77	jHUDSON24	Jessica Hudson	jHUDSON24@free.fr	public	17.4
78	rcox25	Robert Cox	rcox25@smugmug.com	public	21
79	ahughes26	Alice Hughes	ahughes26@google.ru	private	3.9
80	rfoster27	Russell Foster	rfoster27@mysql.com	private	5.7
81	jford28	Jessica Ford	jford28@pbs.org	public	1.1
82	eharris29	Edward Harris	eharris29@simplemachines.org	private	17.3
83	sdiaz2a	Stephen Diaz	sdiaz2a@seattletimes.com	private	17.5
84	bhenderson2b	Benjamin Henderson	bhenderson2b@stumbleupon.com	public	1.5
85	jmitchell2c	Jean Mitchell	jmitchell2c@nba.com	private	1.7
86	tmorales2d	Teresa Morales	tmorales2d@desdev.cn	public	24.7
87	cwatson2e	Carolyn Watson	cwatson2e@diigo.com	private	25
88	cpayne2f	Craig Payne	cpayne2f@yellowpages.com	private	9.1
89	awelch2g	Adam Welch	awelch2g@skyrock.com	private	4.1
90	ascott2h	Arthur Scott	ascott2h@rediff.com	public	3.2
91	gwilliams2i	Gregory Williams	gwilliams2i@cyberchimps.com	public	21.7
92	pmendoza2j	Paul Mendoza	pmendoza2j@qq.com	public	10.7
93	hford2k	Howard Ford	hford2k@dell.com	public	2.8
94	mwoods2l	Martha Woods	mwoods2l@about.com	private	4
95	ggriffin2m	George Griffin	ggriffin2m@comcast.net	public	18.4
96	jflores2n	Jean Flores	jflores2n@lycos.com	private	8.3
97	kmoreno2o	Keith Moreno	kmoreno2o@liveinternet.ru	private	11.2
98	rellis2p	Raymond Ellis	rellis2p@amazon.co.uk	public	17.3
99	jburke2q	Jeffrey Burke	jburke2q@loc.gov	public	17.6
100	rgreen2r	Roy Green	rgreen2r@engadget.com	private	8.8

tblGroups				
GroupID	GroupName	CreatedDate	Icon	Description
1	Cool Kids	2016-10-19	consectetuer_eget.gif	No nerds allowed
2	The Secret Tribe	2017-05-11	totem.jpeg	The illuminati are coming
3	Tech Gurus	2016-10-29	ssd.png	Ask us anything
4	Ziemann and Sons	2017-03-21	family.png	The family men
5	The Pi Eaters 314	2016-10-08	golden_ratio.jpeg	All your math questions answers
6	Smith Family	2017-07-05	granny.gif	Smith Family Group
7	The Band of Brothers	2017-02-06	insignia.png	Military chat
8	Girls just wanna have fun	2016-10-31	saturday.jpeg	Party hardy
9	Rugby Group	2016-03-02	ball_skills.png	Touch pause engage
10	Toys for Boys	2016-03-22	ps4.png	Gadgets and stuff
11	The Untouchables	2017-01-08	skull.jpg	You can't catch us
12	Movie Chat	2017-01-04	poster.jpeg	Latest releases
13	Gossip Groupies	2017-05-16	omg_pic.png	What's happening in your world
14	Buy and Sell	2017-06-21	productimage.jpg	Second hand goods for sale or to buy
15	Dank Memes	2017-08-31	harambe.gif	Proceed with caution

tblMembership			
GroupID	ProfileID	Admin	Posts
1	8	False	429
1	18	False	276
1	28	False	89
1	29	False	107
1	35	False	118
1	45	True	497
1	54	False	320
1	57	False	123
1	63	True	246
1	66	False	429
1	80	False	304
1	85	False	150
1	86	False	735
1	96	False	179
1	97	False	242
2	2	False	460
2	4	False	784
2	18	False	935
2	28	False	284
2	32	True	470
2	34	False	39
2	35	False	954
2	48	False	78
2	53	False	817
2	54	False	501
2	58	False	645
2	63	False	866
2	64	False	325
2	84	False	253
2	100	False	527
3	13	False	595

tblMembership			
GroupID	ProfileID	Admin	Posts
3	14	False	11
3	30	False	473
3	43	False	874
3	45	True	269
3	49	False	70
3	51	False	36
3	53	False	400
3	59	True	120
3	64	False	704
3	68	False	394
3	77	False	44
3	88	True	898
3	95	False	909
3	97	False	589
4	6	False	756
4	7	False	359
4	19	False	909
4	26	False	754
4	30	False	453
4	44	True	420
4	48	False	733
4	53	False	300
4	56	False	609
4	67	False	284
4	74	True	956
4	77	False	681
4	79	False	38
4	81	False	462
4	83	False	953
4	96	False	86
4	97	False	148

tblMembership			
GroupID	ProfileID	Admin	Posts
5	4	True	970
5	6	False	319
5	11	False	534
5	17	False	864
5	21	False	221
5	25	False	113
5	29	False	258
5	35	False	373
5	48	False	960
5	51	False	270
5	54	False	246
5	61	False	107
5	64	False	559
5	68	False	344
5	69	False	402
5	73	False	282
5	75	False	465
5	78	False	83
5	83	False	967
5	85	False	697
6	6	True	776
6	9	False	766
6	11	False	807
6	31	False	857
6	34	False	604
6	42	False	145
6	49	False	199
6	57	False	814
6	61	False	612
6	69	False	38
6	78	False	886

tblMembership			
GroupID	ProfileID	Admin	Posts
6	86	False	679
6	88	False	132
6	90	False	988
6	91	False	525
6	96	False	998
6	97	True	2
7	5	False	505
7	15	False	150
7	16	False	225
7	19	False	741
7	30	False	602
7	32	False	337
7	36	True	993
7	38	False	223
7	39	False	685
7	41	False	850
7	42	False	125
7	68	False	191
7	85	False	314
7	99	False	674
8	7	False	44
8	16	False	396
8	19	False	28
8	54	False	882
8	61	False	981
8	81	False	85
8	86	False	691
8	92	True	820
9	4	False	890
9	12	False	659
9	14	False	107
9	20	False	875
9	26	False	51
9	48	False	677
9	58	False	69
9	59	False	340
9	79	True	737
9	90	False	797
10	8	False	267
10	16	False	867
10	31	False	571
10	33	True	859
10	37	False	220
10	39	False	350
10	40	False	455
10	60	False	168

tblMembership			
GroupID	ProfileID	Admin	Posts
10	62	False	276
10	72	False	806
10	73	True	612
10	78	False	823
10	96	False	609
11	3	False	240
11	9	False	522
11	14	False	375
11	18	False	675
11	24	False	268
11	58	False	844
11	73	False	227
11	83	True	320
11	87	False	23
12	11	False	871
12	22	False	729
12	33	False	301
12	36	False	859
12	46	True	972
12	48	False	236
12	50	False	403
12	51	False	152
12	53	False	217
12	78	False	141
12	79	True	732
12	83	False	973
12	87	False	644
12	94	False	673
12	97	False	29
12	98	False	76
13	7	True	759
13	13	False	490
13	16	False	840
13	19	False	760
13	26	False	810
13	28	False	655
13	42	True	453
13	43	False	487
13	51	False	884
13	57	False	12
13	71	False	259
13	73	False	876
13	76	True	943
13	80	False	857
13	86	False	63
14	18	False	458

tblMembership			
GroupID	ProfileID	Admin	Posts
14	20	False	221
14	24	False	130
14	25	False	610
14	32	False	788
14	39	False	442
14	43	True	570
14	44	False	354
14	45	False	248
14	48	False	512
14	58	False	820
14	74	False	909
14	79	False	996
14	86	True	303
14	87	False	535
14	91	False	169
14	94	False	678
14	95	False	989
15	6	False	84
15	8	False	496
15	17	True	340
15	18	False	791
15	20	False	491
15	21	False	459
15	26	False	339
15	28	False	739
15	36	True	274
15	45	False	91
15	48	False	106
15	52	False	318
15	53	False	127
15	55	False	897
15	62	True	518
15	68	False	593
15	72	False	711
15	80	False	784
15	85	False	463
15	86	False	852
15	92	False	648
15	95	False	431
15	96	False	352
15	99	False	703
15	100	False	89



## InstaPageDB.sql

```
DROP TABLE IF EXISTS tblGroups;
```

```
CREATE TABLE tblGroups (  
    GroupID int(11) DEFAULT NULL,  
    GroupName varchar(50) DEFAULT NULL,  
    CreatedDate date DEFAULT NULL,  
    Icon varchar(50) DEFAULT NULL,  
    Description varchar(50) DEFAULT NULL,  
    KEY GroupID (GroupID)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
INSERT INTO tblGroups (GroupID, GroupName, CreatedDate, Icon, Description)  
VALUES  
    (1, 'Cool Kids', '2016-10-19', 'consectetuer_eget.gif', 'No nerds allowed'),  
    (2, 'The Secret Tribe', '2017-05-11', 'totem.jpeg', 'The illuminati are  
coming'),  
    (3, 'Tech Gurus', '2016-10-29', 'ssd.png', 'Ask us anything'),  
    (4, 'Ziemann and Sons', '2017-03-21', 'family.png', 'The family men'),  
    (5, 'The Pi Eaters 314', '2016-10-08', 'golden_ratio.jpeg', 'All your math  
questions answers'),  
    (6, 'Smith Family', '2017-07-05', 'granny.gif', 'Smith Family Group'),  
    (7, 'The Band of Brothers', '2017-02-06', 'insignia.png', 'Military chat'),  
    (8, 'Girls just wanna have fun', '2016-10-31', 'saturday.jpeg', 'Party  
hardy'),  
    (9, 'Rugby Group', '2016-03-02', 'ball_skills.png', 'Touch pause engage'),  
    (10, 'Toys for Boys', '2016-03-22', 'ps4.png', 'Gadgets and stuff'),  
    (11, 'The Untouchables', '2017-01-08', 'skull.jpg', 'You can't catch us'),  
    (12, 'Movie Chat', '2017-01-04', 'poster.jpeg', 'Latest releases'),  
    (13, 'Gossip Groupies', '2017-05-16', 'omg_pic.png', 'What's happening in  
your world'),  
    (14, 'Buy and Sell', '2017-06-21', 'productimage.jpg', 'Second hand goods for  
sale or to buy'),  
    (15, 'Dank Memes', '2017-08-31', 'harambe.gif', 'Proceed with caution');
```

```
# Dump of table tblMembership
```

```
# -----
```

```
DROP TABLE IF EXISTS tblMembership;
```

```
CREATE TABLE tblMembership (  
    GroupID int(11) DEFAULT '0',  
    ProfileID int(11) DEFAULT '0',  
    Admin tinyint(1) DEFAULT '0',  
    Posts int(11) DEFAULT NULL,  
    KEY GroupID (GroupID),  
    KEY ProfileID (ProfileID)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
INSERT INTO tblMembership (GroupID, ProfileID, Admin, Posts)  
VALUES  
    (1, 8, 0, 429),  
    (1, 18, 0, 276),  
    (1, 28, 0, 89),  
    (1, 29, 0, 107),  
    (1, 35, 0, 118),  
    (1, 45, 1, 497),  
    (1, 47, 0, 897),  
    (1, 54, 0, 320),  
    (1, 57, 0, 123),  
    (1, 63, 1, 246),  
    (1, 66, 0, 429),
```

(1, 80, 0, 304) ,  
(1, 85, 0, 150) ,  
(1, 86, 0, 735) ,  
(1, 96, 0, 179) ,  
(1, 97, 0, 242) ,  
(2, 2, 0, 460) ,  
(2, 4, 0, 784) ,  
(2, 18, 0, 935) ,  
(2, 28, 0, 284) ,  
(2, 32, 1, 470) ,  
(2, 34, 0, 39) ,  
(2, 35, 0, 954) ,  
(2, 48, 0, 78) ,  
(2, 53, 0, 817) ,  
(2, 54, 0, 501) ,  
(2, 58, 0, 645) ,  
(2, 63, 0, 866) ,  
(2, 64, 0, 325) ,  
(2, 84, 0, 253) ,  
(2, 100, 0, 527) ,  
(3, 13, 0, 595) ,  
(3, 14, 0, 11) ,  
(3, 30, 0, 473) ,  
(3, 43, 0, 874) ,  
(3, 45, 1, 269) ,  
(3, 49, 0, 70) ,  
(3, 51, 0, 36) ,  
(3, 53, 0, 400) ,  
(3, 59, 1, 120) ,  
(3, 64, 0, 704) ,  
(3, 68, 0, 394) ,  
(3, 77, 0, 44) ,  
(3, 88, 1, 898) ,  
(3, 95, 0, 909) ,  
(3, 97, 0, 589) ,  
(4, 6, 0, 756) ,  
(4, 7, 0, 359) ,  
(4, 19, 0, 909) ,  
(4, 26, 0, 754) ,  
(4, 30, 0, 453) ,  
(4, 44, 1, 420) ,  
(4, 48, 0, 733) ,  
(4, 53, 0, 300) ,  
(4, 56, 0, 609) ,  
(4, 67, 0, 284) ,  
(4, 74, 1, 956) ,  
(4, 77, 0, 681) ,  
(4, 79, 0, 38) ,  
(4, 81, 0, 462) ,  
(4, 83, 0, 953) ,  
(4, 96, 0, 86) ,  
(4, 97, 0, 148) ,  
(5, 4, 1, 970) ,  
(5, 6, 0, 319) ,  
(5, 11, 0, 534) ,  
(5, 17, 0, 864) ,  
(5, 21, 0, 221) ,  
(5, 25, 0, 113) ,  
(5, 29, 0, 258) ,  
(5, 35, 0, 373) ,  
(5, 48, 0, 960) ,  
(5, 51, 0, 270) ,  
(5, 54, 0, 246) ,  
(5, 61, 0, 107) ,

(5,64,0,559) ,  
(5,68,0,344) ,  
(5,69,0,402) ,  
(5,73,0,282) ,  
(5,75,0,465) ,  
(5,78,0,83) ,  
(5,83,0,967) ,  
(5,85,0,697) ,  
(6,6,1,776) ,  
(6,9,0,766) ,  
(6,11,0,807) ,  
(6,31,0,857) ,  
(6,34,0,604) ,  
(6,42,0,145) ,  
(6,49,0,199) ,  
(6,57,0,814) ,  
(6,61,0,612) ,  
(6,69,0,38) ,  
(6,78,0,886) ,  
(6,86,0,679) ,  
(6,88,0,132) ,  
(6,90,0,988) ,  
(6,91,0,525) ,  
(6,96,0,998) ,  
(6,97,1,2) ,  
(7,5,0,505) ,  
(7,15,0,150) ,  
(7,16,0,225) ,  
(7,19,0,741) ,  
(7,30,0,602) ,  
(7,32,0,337) ,  
(7,36,1,993) ,  
(7,38,0,223) ,  
(7,39,0,685) ,  
(7,41,0,850) ,  
(7,42,0,125) ,  
(7,68,0,191) ,  
(7,85,0,314) ,  
(7,99,0,674) ,  
(8,7,0,44) ,  
(8,16,0,396) ,  
(8,19,0,28) ,  
(8,54,0,882) ,  
(8,61,0,981) ,  
(8,81,0,85) ,  
(8,86,0,691) ,  
(8,92,1,820) ,  
(9,4,0,890) ,  
(9,12,0,659) ,  
(9,14,0,107) ,  
(9,20,0,875) ,  
(9,26,0,51) ,  
(9,48,0,677) ,  
(9,58,0,69) ,  
(9,59,0,340) ,  
(9,79,1,737) ,  
(9,90,0,797) ,  
(10,8,0,267) ,  
(10,16,0,867) ,  
(10,31,0,571) ,  
(10,33,1,859) ,  
(10,37,0,220) ,  
(10,39,0,350) ,  
(10,40,0,455) ,

(10,60,0,168),  
(10,62,0,276),  
(10,72,0,806),  
(10,73,1,612),  
(10,78,0,823),  
(10,96,0,609),  
(11,3,0,240),  
(11,9,0,522),  
(11,14,0,375),  
(11,18,0,675),  
(11,24,0,268),  
(11,58,0,844),  
(11,73,0,227),  
(11,83,1,320),  
(11,87,0,23),  
(12,11,0,871),  
(12,22,0,729),  
(12,33,0,301),  
(12,36,0,859),  
(12,46,1,972),  
(12,48,0,236),  
(12,50,0,403),  
(12,51,0,152),  
(12,53,0,217),  
(12,78,0,141),  
(12,79,1,732),  
(12,83,0,973),  
(12,87,0,644),  
(12,94,0,673),  
(12,97,0,29),  
(12,98,0,76),  
(13,7,1,759),  
(13,13,0,490),  
(13,16,0,840),  
(13,19,0,760),  
(13,26,0,810),  
(13,28,0,655),  
(13,42,1,453),  
(13,43,0,487),  
(13,51,0,884),  
(13,57,0,12),  
(13,71,0,259),  
(13,73,0,876),  
(13,76,1,943),  
(13,80,0,857),  
(13,86,0,63),  
(14,18,0,458),  
(14,20,0,221),  
(14,24,0,130),  
(14,25,0,610),  
(14,32,0,788),  
(14,39,0,442),  
(14,43,1,570),  
(14,44,0,354),  
(14,45,0,248),  
(14,48,0,512),  
(14,58,0,820),  
(14,74,0,909),  
(14,79,0,996),  
(14,86,1,303),  
(14,87,0,535),  
(14,91,0,169),  
(14,94,0,678),  
(14,95,0,989),

```
(15,6,0,84),  
(15,8,0,496),  
(15,17,1,340),  
(15,18,0,791),  
(15,20,0,491),  
(15,21,0,459),  
(15,26,0,339),  
(15,28,0,739),  
(15,36,1,274),  
(15,45,0,91),  
(15,48,0,106),  
(15,52,0,318),  
(15,53,0,127),  
(15,55,0,897),  
(15,62,1,518),  
(15,68,0,593),  
(15,72,0,711),  
(15,80,0,784),  
(15,85,0,463),  
(15,86,0,852),  
(15,92,0,648),  
(15,95,0,431),  
(15,96,0,352),  
(15,99,0,703),  
(15,100,0,89);
```

```
# Dump of table tblProfiles
```

```
# -----
```

```
DROP TABLE IF EXISTS tblProfiles;
```

```
CREATE TABLE tblProfiles (  
  ProfileID int(11) DEFAULT NULL,  
  Username varchar(50) DEFAULT NULL,  
  Fullname varchar(50) DEFAULT NULL,  
  Email varchar(50) DEFAULT NULL,  
  Privacy varchar(7) DEFAULT NULL,  
  DailyPostRate double DEFAULT NULL,  
  KEY ProfileID (ProfileID)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

```
INSERT INTO tblProfiles (ProfileID, Username, Fullname, Email, Privacy,  
DailyPostRate)
```

```
VALUES
```

```
(1,'kmoore0','Kenneth Moore','kmoore0@mashable.com','public',24.2),  
(2,'sberry1','Stephanie Berry','sberry1@unesco.org','public',11.9),  
(3,'ahernandez2','Ashley Hernandez','ahernandez2@psu.edu','private',6.5),  
(4,'lruiz3','Lillian Ruiz','lruiz3@nhs.uk','private',13.9),  
(5,'jlarson4','Jimmy Larson','jlarson4@cafepress.com','public',18.4),  
(6,'showard5','Sara Howard','showard5@surveymonkey.com','private',19.2),  
(7,'jtaylor6','James Taylor','jtaylor6@mlb.com','public',14.2),  
(8,'cphillips7','Charles Phillips','cphillips7@google.pl','public',11.1),  
(9,'jfreeman8','Jeremy Freeman','jfreeman8@ovh.net','private',1.6),  
(10,'sortiz9','Shawn Ortiz','sortiz9@csmonitor.com','public',10.1),  
(11,'enelsona','Emily Nelson','enelsona@miitbeian.gov.cn','private',4.7),  
(12,'hadamsb','Henry Adams','hadamsb@vk.com','public',24.7),  
(13,'emorrisc','Earl Morris','emorrisc@freewebs.com','private',18.9),  
(14,'mevansd','Matthew Evans','mevansd@skype.com','private',21.3),  
(15,'ccoopere','Craig Cooper','ccoopere@yandex.ru','private',23.5),  
(16,'mbellf','Mildred Bell','mbellf@merriam-webster.com','private',11.8),  
(17,'jreyesg','Joan Reyes','jreyesg@cocolog-nifty.com','private',10.6),  
(18,'tpattersonh','Thomas
```

```
Patterson','tpattersonh@delicious.com','public',5.9),
```

(19, 'grosei', 'Gregory Rose', 'grosei@blogspot.com', 'private', 5.5),  
(20, 'jjohnsonj', 'Johnny Johnson', 'jjohnsonj@addtoany.com', 'private', 5.8),  
(21, 'jriverak', 'Jose Rivera', 'jriverak@buzzfeed.com', 'public', 14.4),  
(22, 'dsullivanl', 'Denise  
Sullivan', 'dsullivanl@rediff.com', 'public', 20.1),  
(23, 'charrisonm', 'Cheryl Harrison', 'charrisonm@prweb.com', 'public', 9.3),  
(24, 'jdixonn', 'James Dixon', 'jdixonn@hubpages.com', 'private', 8.9),  
(25, 'njohnstono', 'Norma  
Johnston', 'njohnstono@ycombinator.com', 'public', 7),  
(26, 'mlongp', 'Mary Long', 'mlongp@wix.com', 'public', 6),  
(27, 'akimq', 'Ann Kim', 'akimq@ucsd.edu', 'public', 14.7),  
(28, 'nhamiltonr', 'Nancy  
Hamilton', 'nhamiltonr@cargocollective.com', 'private', 17.6),  
(29, 'progerss', 'Patricia  
Rogers', 'progerss@cargocollective.com', 'private', 18.1),  
(30, 'jrayt', 'Juan Ray', 'jrayt@dedecms.com', 'private', 18.2),  
(31, 'kstanleyu', 'Kathryn Stanley', 'kstanleyu@ox.ac.uk', 'private', 19.9),  
(32, 'bmccoqv', 'Brandon Mccoqv', 'bmccoqv@newsvine.com', 'public', 17.6),  
(33, 'egrayw', 'Eugene Gray', 'egrayw@cbslocal.com', 'private', 5.6),  
(34, 'wlawsonx', 'Willie  
Lawson', 'wlawsonx@accuweather.com', 'private', 14.4),  
(35, 'ejordany', 'Eric Jordan', 'ejordany@hostgator.com', 'private', 19.4),  
(36, 'twoodz', 'Thomas Wood', 'twoodz@cafepress.com', 'public', 17.6),  
(37, 'gcampbell10', 'Gary  
Campbell', 'gcampbell10@nydailynews.com', 'private', 16.1),  
(38, 'pgordon11', 'Patricia Gordon', 'pgordon11@4shared.com', 'private', 9.6),  
(39, 'jnguyen12', 'Jesse Nguyen', 'jnguyen12@list-manage.com', 'public', 2.4),  
(40, 'tjohnston13', 'Teresa  
Johnston', 'tjohnston13@statcounter.com', 'private', 11.8),  
(41, 'fsimpson14', 'Fred  
Simpson', 'fsimpson14@geocities.com', 'private', 22.4),  
(42, 'ldaniels15', 'Laura Daniels', 'ldaniels15@alibaba.com', 'public', 14.1),  
(43, 'rgardner16', 'Rebecca Gardner', 'rgardner16@gmpg.org', 'public', 9.3),  
(44, 'jmontgomery17', 'Jeremy  
Montgomery', 'jmontgomery17@home.pl', 'public', 15.5),  
(45, 'kjones18', 'Kathy Jones', 'kjones18@zdnets.com', 'public', 4.3),  
(46, 'jmartin19', 'Jack Martin', 'jmartin19@zimbio.com', 'public', 9),  
(47, 'amasonla', 'Angela Mason', 'amasonla@cnet.com', 'public', 7.7),  
(48, 'mgarzalb', 'Margaret Garza', 'mgarzalb@prweb.com', 'public', 20.9),  
(49, 'jlanelc', 'Jack Lane', 'jlanelc@pbs.org', 'private', 1.3),  
(50, 'eporter1d', 'Emily  
Porter', 'eporter1d@prnewswire.com', 'private', 21.6),  
(51, 'awalker1e', 'Adam Walker', 'awalker1e@xinhuanet.com', 'private', 16.5),  
(52, 'jflores1f', 'Jimmy Flores', 'jflores1f@loc.gov', 'public', 7),  
(53, 'jstevens1g', 'Jesse  
Stevens', 'jstevens1g@indiegogo.com', 'private', 16.2),  
(54, 'tdeanlh', 'Todd Dean', 'tdeanlh@usda.gov', 'private', 4.3),  
(55, 'wspencerli', 'Walter Spencer', 'wspencerli@aol.com', 'public', 11.1),  
(56, 'jpeteronlj', 'Jeffrey  
Peterson', 'jpeteronlj@adobe.com', 'public', 22.1),  
(57, 'djordanlk', 'Diana Jordan', 'djordanlk@shop-pro.jp', 'private', 2.2),  
(58, 'rbarnes1l', 'Ryan Barnes', 'rbarnes1l@usda.gov', 'private', 4.2),  
(59, 'jgarcialm', 'James Garcia', 'jgarcialm@cisco.com', 'private', 24.4),  
(60, 'sperkln', 'Sarah Perkins', 'sperkln@wix.com', 'private', 15.1),  
(61, 'pgordonlo', 'Paul Gordon', 'pgordonlo@trellian.com', 'private', 7.7),  
(62, 'mhartlp', 'Michelle Hart', 'mhartlp@berkeley.edu', 'private', 18.9),  
(63, 'dperezlq', 'Denise Perez', 'dperezlq@ow.ly', 'private', 3.4),  
(64, 'rhilllr', 'Ralph Hill', 'rhilllr@amazon.de', 'private', 14.9),  
(65, 'mmurphy1s', 'Marilyn Murphy', 'mmurphy1s@sohu.com', 'public', 13.6),  
(66, 'rjames1t', 'Russell James', 'rjames1t@addtoany.com', 'private', 17.1),  
(67, 'hdeanlu', 'Harold Dean', 'hdeanlu@marriott.com', 'private', 7.7),  
(68, 'jwells1v', 'Janice Wells', 'jwells1v@europa.eu', 'private', 4.4),  
(69, 'lpalmer1w', 'Lori Palmer', 'lpalmer1w@hhs.gov', 'public', 3.8),  
(70, 'dparker1x', 'Douglas Parker', 'dparker1x@dedecms.com', 'private', 4.7),

(71, 'rlawsonly', 'Randy  
Lawson', 'rlawsonly@livejournal.com', 'private', 16.2),  
(72, 'cfreemanlz', 'Charles  
Freeman', 'cfreemanlz@seattletimes.com', 'public', 23.1),  
(73, 'kbowman20', 'Kevin Bowman', 'kbowman20@hibu.com', 'public', 22.4),  
(74, 'lfernandez21', 'Larry  
Fernandez', 'lfernandez21@hatena.ne.jp', 'private', 18.8),  
(75, 'groggers22', 'Gerald Rogers', 'groggers22@imageshack.us', 'public', 12.2),  
(76, 'jdixon23', 'Joe Dixon', 'jdixon23@dailymail.co.uk', 'private', 16.7),  
(77, 'jHUDSON24', 'Jessica Hudson', 'jHUDSON24@free.fr', 'public', 17.4),  
(78, 'rcox25', 'Robert Cox', 'rcox25@smugmug.com', 'public', 21),  
(79, 'ahughes26', 'Alice Hughes', 'ahughes26@google.ru', 'private', 3.9),  
(80, 'rfoster27', 'Russell Foster', 'rfoster27@mysql.com', 'private', 5.7),  
(81, 'jford28', 'Jessica Ford', 'jford28@pbs.org', 'public', 1.1),  
(82, 'eharris29', 'Edward  
Harris', 'eharris29@simplemachines.org', 'private', 17.3),  
(83, 'sdiaz2a', 'Stephen Diaz', 'sdiaz2a@seattletimes.com', 'private', 17.5),  
(84, 'bhenderson2b', 'Benjamin  
Henderson', 'bhenderson2b@stumbleupon.com', 'public', 1.5),  
(85, 'jmitchell2c', 'Jean Mitchell', 'jmitchell2c@nba.com', 'private', 1.7),  
(86, 'tmorales2d', 'Teresa Morales', 'tmorales2d@desdev.cn', 'public', 24.7),  
(87, 'cwatson2e', 'Carolyn Watson', 'cwatson2e@diigo.com', 'private', 25),  
(88, 'cpayne2f', 'Craig Payne', 'cpayne2f@yellowpages.com', 'private', 9.1),  
(89, 'awelch2g', 'Adam Welch', 'awelch2g@skyrock.com', 'private', 4.1),  
(90, 'ascott2h', 'Arthur Scott', 'ascott2h@rediff.com', 'public', 3.2),  
(91, 'gwilliams2i', 'Gregory  
Williams', 'gwilliams2i@cyberchimps.com', 'public', 21.7),  
(92, 'pmendoza2j', 'Paul Mendoza', 'pmendoza2j@qq.com', 'public', 10.7),  
(93, 'hford2k', 'Howard Ford', 'hford2k@dell.com', 'public', 2.8),  
(94, 'mwoods2l', 'Martha Woods', 'mwoods2l@about.com', 'private', 4),  
(95, 'ggriffin2m', 'George  
Griffin', 'ggriffin2m@comcast.net', 'public', 18.4),  
(96, 'jflores2n', 'Jean Flores', 'jflores2n@lycos.com', 'private', 8.3),  
(97, 'kmoreno2o', 'Keith  
Moreno', 'kmoreno2o@liveinternet.ru', 'private', 11.2),  
(98, 'rellis2p', 'Raymond Ellis', 'rellis2p@amazon.co.uk', 'public', 17.3),  
(99, 'jburke2q', 'Jeffrey Burke', 'jburke2q@loc.gov', 'public', 17.6),  
(100, 'rgreen2r', 'Roy Green', 'rgreen2r@engadget.com', 'private', 8.8);

## SECTION B

### data.txt

```
1#d0ugSm1th#Merry Christmas everyone!#2016-12-25 10:45
1#susanSmith89#To you too Doug!#2016-12-25 10:45#2
1#susanSmith89##2016-12-25 11:02#4
1#BobSeegers##2016-12-25 13:21#1
2#s1ckboy77#Loving life!#2017-09-25 16:41
2#LizelleDeBruin#You have plenty to be grateful for.#2017-09-25 16:41#2
2#Kwezi88#Love your positive attitude.#2017-09-25 16:44#2
2#Kwezi88##2017-09-25 17:49#4
2#LeRouxLight##2017-09-25 17:49#1
3#L3xiJones#Struggling to sleep at night. Any advice?#2017-06-25 00:08
3#ReggieSanders53##2017-06-25 00:08#4
3#TheSciGuy#Try some rooibos tea before bed.#2017-06-25 08:45#2
3#Ins0mnia#If you find a solution please let me know.#2017-06-25 09:54#2
3#SiyaSandton##2017-06-26 03:22#3
4#GuruZA#Trump is such a terrible president!#2017-01-25 21:45
4#JumpingJill12#That's democracy for you.#2017-01-25 21:45#2
4#JumpingJill12##2017-01-25 22:45#1
4#ReggieSanders53#Big business really likes him.#2017-01-25 22:45#2
4#PerfectPete# #2017-01-27 21:33#1
4#Fikile66##2017-01-27 23:54#3
```