

Advanced Database Systems - Phase 1

Omnia Zakaria, Reham Hamdy, Zeinab Rabie, Hagar Haytham : Team 8

December 11, 2019

1 Hardware Specification

Operating System	64-bit Windows10
CPU	Core i7-7700HQ @2.80 GHZ
RAM	16 GB
Hard Disk	1 TB HDD,128 GB SDD

2 ER Diagram

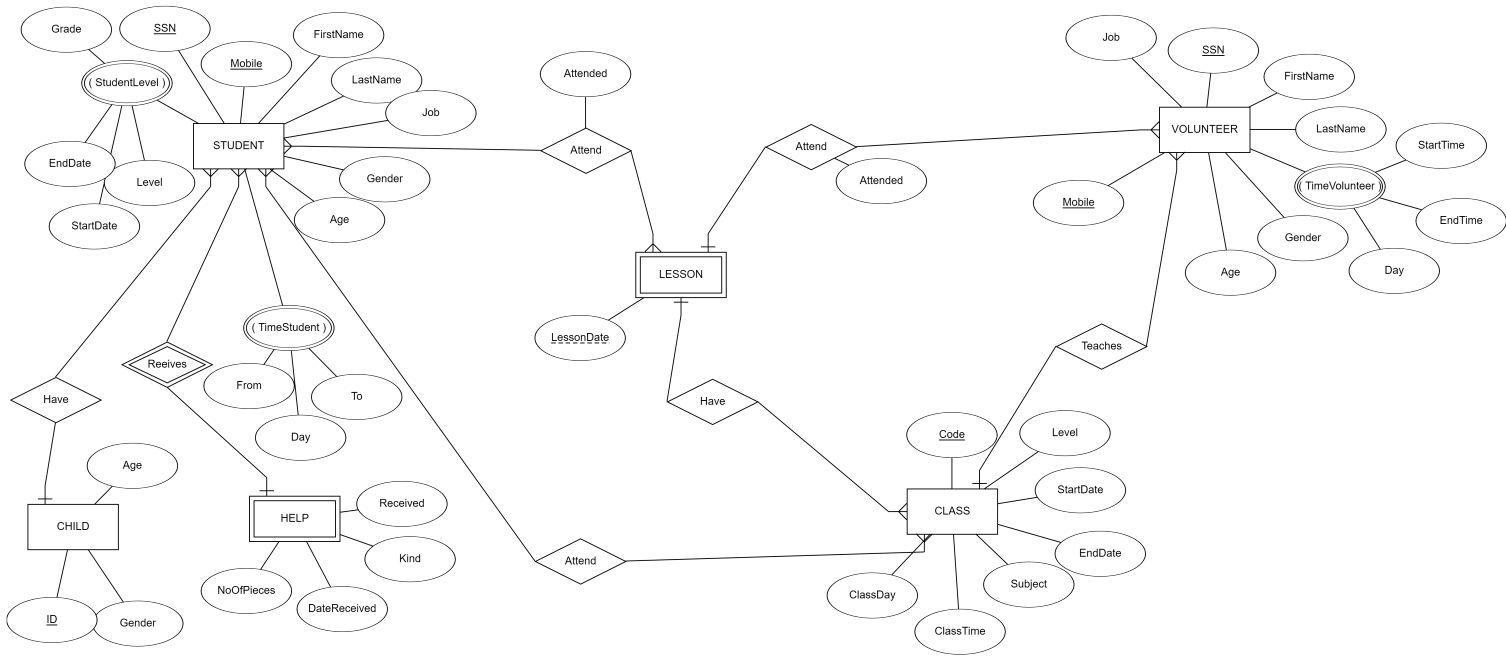


Figure 1: ER Diagram

3 Database Statistics

Number of Tables: 12

Table 1: Database Statistics

Table Name	Row Count	Main Key	Indexes	FK
Child	100135	YES	1	1
Class	3000	YES	2	1
Help	5844	NO	2	0
HelpReceived	5844	YES	3	3
Lesson	3000	NO	3	2
Student	997747	YES	2	0
Studentclass	59021	YES	2	2
Studentlesson	59050	YES	3	3
Studentlevels	130482	YES	2	1
Timestudent	58917	YES	1	1
Timevolunteer	3000	YES	1	1
Volunteer	99960	YES	1	0

Name	Engine	Version	Row_format	Rows	Avg_row_length	Data_length	Max_data_length	Index_length	Data_free	Auto_increment	Create_time
child	InnoDB	10	Compact	100135	36	3686400	0	0	4194304	NULL	2019-12-09 18:48:50
class	InnoDB	10	Compact	3000	65	196608	0	65536	0	9037	2019-12-10 21:54:49
help	InnoDB	10	Compact	5844	47	278528	0	147456	0	NULL	2019-12-09 18:48:50
helpreceived	InnoDB	10	Compact	5844	50	294912	0	327680	0	NULL	2019-12-09 18:48:50
lesson	InnoDB	10	Compact	3000	54	163840	0	147456	0	NULL	2019-12-09 18:48:50
student	InnoDB	10	Compact	997747	76	76120064	0	18399232	6291456	NULL	2019-12-09 18:48:50
studentclass	InnoDB	10	Compact	59021	26	1589248	0	1589248	4194304	NULL	2019-12-09 18:48:50
studentlesson	InnoDB	10	Compact	59050	44	2637824	0	4227072	4194304	NULL	2019-12-09 18:48:50
studentlevels	InnoDB	10	Compact	130482	52	6832128	0	3686400	4194304	NULL	2019-12-10 21:54:49
timestudent	InnoDB	10	Compact	58917	44	2637824	0	0	4194304	NULL	2019-12-11 07:47:52
timevolunteer	InnoDB	10	Compact	3000	43	131072	0	0	0	NULL	2019-12-11 07:46:04
volunteer	InnoDB	10	Compact	99960	78	7880704	0	0	4194304	100001	2019-12-09 18:48:50

Figure 2: Status