

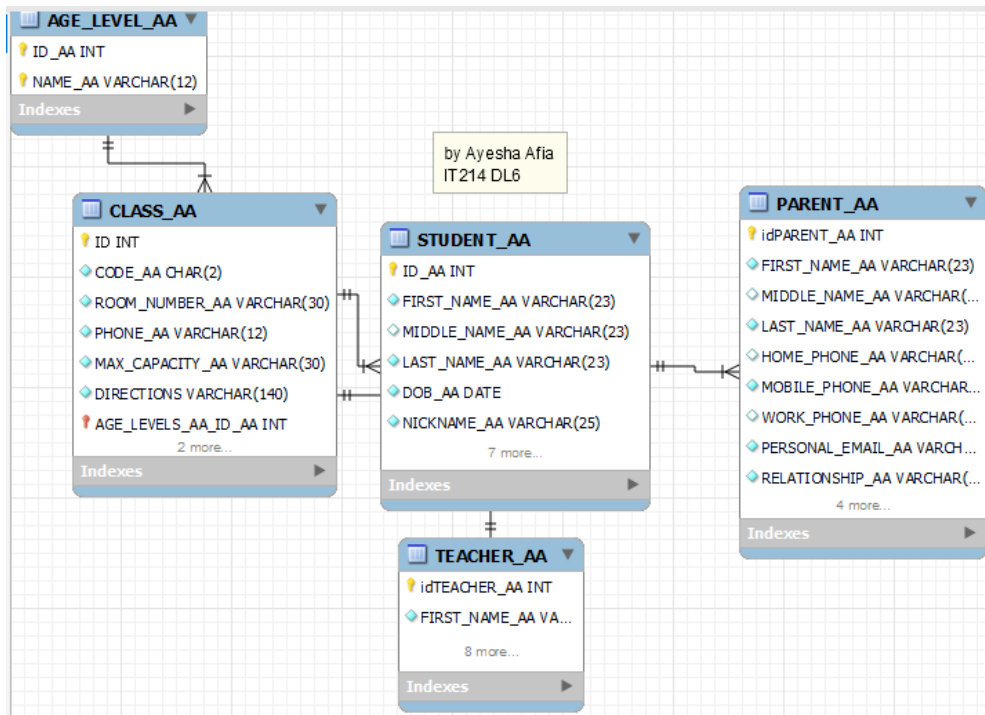
“Happy Learning” Kindergarten

Database Design Report

The database is designed to manage the operations of “Happy Learning” private kindergarten and its classes, age levels, students, and teachers.



TASK 1 ERD



Conceptual Analysis

The main entities:

AGE_LEVEL: All age levels (name)

CLASS: All classes in the kindergarten (name, code, room number, phone number, capacity, directions to location.)

STUDENT: All students in the kindergarten (first name, middle name, last name, nickname, date of birth, address, class)

PARENT: PARENTs of the STUDENTS (first, last, middle name, home phone number, mobile phone number, work phone number, email, relationship to the child.)

TEACHER: Teachers in the kindergarten (first, middle, last name, home phone number, work email, personal email, the graduated college and their highest degree, area of the degree.)

The main relationships are

AGE LEVEL contains CLASS

- One to many relationship because each age level contains MANY (3) classes but each class belongs to only one age level.

STUDENT enrolled in CLASS

- Many to one relationship because one student can be enrolled in one class but one class can have many students.

STUDENT is related to PARENT

- Many to many relationship because there can be many students or many PARENTs
- BRIDGE:RELATION decides PARENTs relationship to the student
- STUDENT has PARENT RELATION
- PARENT has student RELATION .

TEACHER is assigned to CLASS

- One to one relationship because one teacher can only be assigned to one class and each class has only one teacher.

Entities Analysis

Entity: AGE_LEVEL

Domain: VARCHAR(10)

SIMPLE ATTRIBUTE


SINGLE VALUE

REQUIRED

UNIQUE


SIMPLE PRIMARY KEY ID


Keeps all age levels (name)

		Table Name:	AGE_LEVELS_AA							Schema:	mydb
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression	
ID_AA	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
NAME_AA	VARCHAR(12)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Entity: CLASS

All classes in the kindergarten (name, code, room number, phone number, capacity, directions to location.)

		Table Name:	CLASS_AA							Schema:	mydb
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression	
ID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
CODE_AA	CHAR(2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
ROOM_NUMBER_AA	VARCHAR(30)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
PHONE_AA	VARCHAR(12)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

		Table Name:	CLASS_AA							Schema:	mydb
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression	
PHONE_AA	VARCHAR(12)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
MAX_CAPACITY_AA	VARCHAR(30)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
DIRECTIONS	VARCHAR(140)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Entity: STUDENT

Domain: VARCHAR(7)

SIMPLE ATTRIBUTE

SINGLE VALUE

REQUIRED

UNIQUE

SIMPLE PRIMARY KEY ID

FOREIGN KEY RELATION

All students in the kindergarten (first name, middle name, last name, nickname, date of birth, address, class)








Table Name:

Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 ID_AA	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 FIRST_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 MIDDLE_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 LAST_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	








Table Name:

Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 NICKNAME_AA	VARCHAR(25)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 CITY	VARCHAR(15)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 ZIPCODE_AA	VARCHAR(5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 STREET_AA	VARCHAR(35)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	








Table Name:

Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 STREET_AA	VARCHAR(35)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 PHONE_AA	VARCHAR(12)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 CLASS_AA_ID	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 CLASS_AA_AGE_LEVELS_AA...	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Entity: PARENT

Domain: VARCHAR(6)

SIMPLE ATTRIBUTE

SINGLE VALUE

REQUIRED

UNIQUE

SIMPLE PRIMARY KEY ID

FOREIGN KEY RELATION

PARENTs of the STUDENTS (first, last, middle name, home phone number, mobile phone number, work phone number, email, relationship to the child.)








Table Name:

PARENT_AA

Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 idPARENT_AA	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 FIRST_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 MIDDLE_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 LAST_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	








Table Name:

PARENT_AA

Schema:

mydb

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 HOME_PHONE_AA	VARCHAR(12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 MOBILE_PHONE_AA	VARCHAR(12)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 WORK_PHONE_AA	VARCHAR(12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 PERSONAL_EMAIL_AA	VARCHAR(30)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	








Table Name:

PARENT_AA

Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
 WORK_PHONE_AA	VARCHAR(12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 PERSONAL_EMAIL_AA	VARCHAR(30)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 RELATIONSHIP_AA	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
 STUDENT_AA_ID_AA	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ENTITY: TEACHER

Domain: VARCHAR(10)

SIMPLE ATTRIBUTE

SINGLE VALUE

REQUIRED

UNIQUE

SIMPLE PRIMARY KEY ID

Teachers in the kindergarten (first, middle, last name, home phone number, work email, personal email, the graduated college and their highest degree, area of the degree.)




Table Name:
 Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
idTEACHER_AA	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
FIRST_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MIDDLE_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
LAST_NAME_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	




Table Name:
 Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
HOME_PHONE_AA	VARCHAR(23)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
WORK_EMAIL	VARCHAR(30)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PERSONAL_EMAIL	VARCHAR(30)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COLLEGE_AA	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Column Name:
 Data Type:




Table Name:
 Schema: **mydb**

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
COLLEGE_AA	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DEGREE_AA	CHAR(5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DEGREE_AREA	VARCHAR(25)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Relationship Analysis

Relationship name: AGE LEVEL contains CLASS

Degree: Binary because it involves two entities

Type: One to many relationship because each age level contains MANY (3) classes but each class belongs to only one age level.

Strength: The relationship is weak because the entities are independent.

Participation: AGE LEVEL has mandatory participation because the CLASS must belong to an AGE LEVEL.

Participation: CLASS has mandatory participation because each AGE LEVEL must contain at least one CLASS.

Cardinality: CLASS has cardinality because (1,3) because an AGE LEVEL does not have more than 3 classes.

Relationship name: STUDENT enrolled in CLASS

Degree: Binary because it involves two entities

Type: Many to one relationship because one student can be enrolled in one class but one class can have many students.

Strength: The relationship is weak because the entities are independent.

Participation: STUDENT has mandatory participation because the STUDENT must belong to a CLASS.

Participation:CLASS has mandatory participation because each CLASS must contain at least one STUDENT.

Cardinality: STUDENT has cardinality because (1,30) because a CLASS does not have more than 30 students.

Relationship name: STUDENT is related to PARENT

Degree: Binary because it involves two entities

Type: Many to one relationship because one student can be enrolled in one class but one class can have many students.

Strength: The relationship is strong because the entities are dependent.

Participation: STUDENT has mandatory participation because the STUDENT must belong to a PARENT.

Participation:PARENT has mandatory participation because each PARENT must contain at least one STUDENT.

Foreign key: The relationship is represented by the foreign key RELATION

- BRIDGE:RELATION decides PARENTs relationship to the student
- STUDENT has PARENT RELATION
- PARENT has student RELATION .

Relationship name: TEACHER is assigned to CLASS

Degree: Binary because it involves two entities

Type: One to one relationship because one teacher can only be assigned to one class and each class has only one teacher.

Strength: The relationship is weak because the entities are independent.



Participation: TEACHER has mandatory participation because the TEACHER must belong to a CLASS.

Participation: CLASS has mandatory participation because each CLASS must contain at least one TEACHER.

Cardinality: CLASS has cardinality because (1) because a CLASS does not have more than 1 TEACHER.

TASK 2 CREATE DATABASE

```
1 # Task 2 create database by Ayesha Afia
2 • DROP DATABASE IF EXISTS P3_A1_Afia_Ayesha;
3 • CREATE DATABASE IF NOT EXISTS P3_A1_Afia_Ayesha;
4 • USE P3_A1_Afia_Ayesha;
5
```

#	Time	Action	Message
	1 17:26:49	DROP DATABASE IF EXISTS P3_A1_Afia_Ayesha	0 row(s) affected, 1 warning(s)
	2 17:26:49	CREATE DATABASE IF NOT EXISTS P3_A1_Afia_Ayesha	1 row(s) affected
	3 17:26:49	USE P3_A1_Afia_Ayesha	0 row(s) affected

TASK 3 CREATE TABLES

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Tables_in_p3_a1_afia_ayesha

Result 1

Result 2

Output

Action Output

	#	Time	Action	Message
✓	3	17:26:49	USE P3_A1_Afia_Ayesha	0 row(s) affected
✓	4	17:27:13	DROP DATABASE IF EXISTS P3_A1_Afia_Ayesha	0 row(s) affected
✓	5	17:27:13	CREATE DATABASE IF NOT EXISTS P3_A1_Afia_Ayesha	1 row(s) affected
✓	6	17:27:13	USE P3_A1_Afia_Ayesha	0 row(s) affected
✓	7	17:27:13	SHOW DATABASES	12 row(s) returned
✓	8	17:27:13	SHOW TABLES	0 row(s) returned

```
12 ● ○ CREATE TABLE CLASS(  
13     CODE CHAR(2) PRIMARY KEY,  
14     LEVEL VARCHAR (10) NOT NULL,  
15     COLOR VARCHAR(10) NOT NULL,  
16     ROOM INT NOT NULL UNIQUE,  
17     PHONE CHAR(12) NOT NULL UNIQUE,  
18     CAPACITY INT NOT NULL,  
19     LOCATION VARCHAR(100)  
20 );  
21  
22 ● ○ CREATE TABLE STUDENT(  
23     ID INT PRIMARY KEY,  
24     FIRST_NAME VARCHAR(30) NOT NULL,  
25     MIDDLE_NAME VARCHAR(30),  
26     LAST_NAME VARCHAR(30) NOT NULL,  
27     NICKNAME VARCHAR(15),  
28     DOB DATE NOT NULL,
```

```
25     MIDDLE_NAME VARCHAR(30),  
26     LAST_NAME VARCHAR(30) NOT NULL,  
27     NICKNAME VARCHAR(15),  
28     DOB DATE NOT NULL,  
29     STREET VARCHAR(50) NOT NULL,  
30     CITY VARCHAR(25) NOT NULL,  
31     ZIPCODE VARCHAR(10) NOT NULL,  
32     CLASS_CODE CHAR(2) NOT NULL REFERENCES CLASS(CODE)  
33 );  
34 ● ○ CREATE TABLE TEACHER(  
35     ID INT PRIMARY KEY,  
36     FIRST_NAME VARCHAR(30) NOT NULL,  
37     MIDDLE_NAME VARCHAR(30),  
38     LAST_NAME VARCHAR(30) NOT NULL,  
39     HOME_PHONE CHAR(12) NOT NULL,  
40     WORK_PHONE CHAR(12) NOT NULL,  
41     DOB DATE NOT NULL,
```

```

41     DOB DATE NOT NULL,
42     WORK_EMAIL VARCHAR(30) NOT NULL,
43     PERSONAL_EMAIL VARCHAR(30) NOT NULL,
44     DEGREE CHAR(5) NOT NULL,
45     DEGREE_AREA VARCHAR(30) NOT NULL
46 );
47 • CREATE TABLE PARENT(
48     ID INT PRIMARY KEY,
49     FIRST_NAME VARCHAR(30) NOT NULL,
50     MIDDLE_NAME VARCHAR(30),
51     LAST_NAME VARCHAR(30) NOT NULL,
52     HOME_PHONE CHAR(12) NOT NULL,
53     WORK_PHONE CHAR(12) NOT NULL,
54     DOB DATE NOT NULL,
55     WORK_EMAIL VARCHAR(30) NOT NULL,
56     PERSONAL_EMAIL VARCHAR(30) NOT NULL,
57     RELATIONSHIP VARCHAR(30) NOT NULL

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Tables_in_p3_a1_afia_ayesha

Result 5 | Result 6 x | Read C

Output

Action Output

#	Time	Action	Message
✓ 17	17:27:41	SHOW DATABASES	12 row(s) returned
✓ 18	17:27:41	SHOW TABLES	0 row(s) returned
✓ 19	17:27:41	CREATE TABLE CLASS(CODE CHAR(2) PRIMARY KEY, LEVEL VARCHAR (10) NOT NU...	0 row(s) affected
✓ 20	17:27:41	CREATE TABLE STUDENT(ID INT PRIMARY KEY, FIRST_NAME VARCHAR(30) NOT N...	0 row(s) affected
✓ 21	17:27:41	CREATE TABLE TEACHER(ID INT PRIMARY KEY, FIRST_NAME VARCHAR(30) NOT N...	0 row(s) affected
✓ 22	17:27:41	CREATE TABLE PARENT(ID INT PRIMARY KEY, FIRST_NAME VARCHAR(30) NOT NU...	0 row(s) affected

TASK 4 ADD DATA

```

59
60 #TASK 4 ADD DATA BY AYESHA AFIA
61 • INSERT INTO CLASS VALUES('GT', 'Turtles', 'Green', '25', '111-999-0000', '27', 'North West'),
62 ('GF', 'Foxes', 'Green', '26', '222-000-1111', '25', 'West'),
63 ('GM', 'Monkeys', 'Green', '27', '333-000-2222', '31', 'South East'),
64 ('RF', 'Foxes', 'Red', '28', '444-555-6600', '29', 'East'),
65 ('RT', 'Turtles', 'Red', '29', '999-999-9999', '27', 'South West'),
66 ('RM', 'Monkeys', 'Red', '30', '000-111-2222', '26', 'South'),
67 ('BM', 'Monkeys', 'Blue', '31', '555-888-2222', '30', 'North'),
68 ('BF', 'Foxes', 'Blue', '32', '777-777-7777', '28', 'North East'),
69 ('BT', 'Turtles', 'Blue', '33', '888-999-8888', '26', 'Mid West');
70
71 • INSERT INTO STUDENT VALUES('1', 'John', 'Michael', 'Doe', NULL, '2016-03-25', 'King', 'Colombia', '20101',
72 ('2', 'Jane', NULL, 'Smith', NULL, '2016-04-25', 'Main', 'Charleston', '20101', 'SC', 'GT'),
73 ('3', 'John', NULL, 'Williams', 'JP', '2016-05-25', 'Dave', 'Colombia', '20101', 'SC', 'GT'),
74 ('4', 'Katie', 'Kasie', 'Maroney', 'Kat', '2016-06-25', 'Davis', 'River', '21102', 'SC', 'GM'),
75 ('5', 'Cameron', 'Roderick', 'Johnson', 'Cam', '2016-07-25', 'Amanda', 'Middleburg', '21102', 'SC', 'BT'),
76 ('6', 'Kevin', 'Michael', 'Carlson', NULL, '2016-08-25', 'Walney', 'Middleburg', '21100', 'SC', 'BM'),
77 ('7', 'Christine', 'Alexa', 'Doe', NULL, '2016-09-25', 'King', 'Colombia', '20101', 'SC', 'GM'),
78 ('8', 'Justin', 'Robert', 'Fields', NULL, '2016-10-25', 'Queen', 'Charleston', '21110', 'SC', 'RM'),
79 ('9', 'Charles', 'Jack', 'Donovan', 'Charlie', '2016-11-25', 'Rainwater', 'McLean', '29900', 'VA', 'GF'),
80 ('10', 'Alexander', 'Alfred', 'Doe', NULL, '2016-12-25', 'Hogan', 'Falls', '20105', 'SC', 'BF'),
81 ('11', 'Samantha', NULL, 'Ackerman', 'Sam', '2016-03-25', 'Kline', 'River', '20101', 'SC', 'RF'),
82 ('12', 'Elizabeth', 'Katherine', 'Lemon', 'Liz', '2016-01-25', 'Link', 'Halifax', '20101', 'SC', 'BT');
83
84 • INSERT INTO TEACHER VALUES('100', 'Matthew', 'Johson', NULL, 'MJ@mial.com', NULL, 'South Carolina Universi
85 ('101', 'Mary', 'Doe', NULL, 'MD@mial.com', NULL, 'North Carolina University', 'English', 'GF', 'BA ENGLIS
86 ('102', 'John', 'Smith', NULL, 'JS@mial.com', NULL, 'Penn State University ', 'History', 'GM', 'BA HISTORY
87 ('103', 'Amanda', 'Grey', NULL, 'AG@mial.com', NULL, 'Duke University', 'Biology', 'RF', 'BS BIOLOGY'),
88 ('104', 'Shane', 'Austin', NULL, 'SA@mial.com', NULL, 'Virginia University', 'Chemistry', 'RT', 'MS CHEMIS
89 ('105', 'Dorris', 'Johson', NULL, 'DJ@mial.com', NULL, 'John Hopkins University', 'Psychology', 'RM', 'PhC
90 ('106', 'Stephanie', 'Miller', NULL, 'SM@mial.com', NULL, 'Jame Hawkins University', 'Sociology', 'BM', 'B
91 ('107', 'William', 'Meadow', NULL, 'WM@mial.com', NULL, 'Radford University', 'Math', 'BF', 'BA MATH'),
92
93
94 • INSERT INTO PARENT VALUES('200', 'Michael', 'Doe', NULL, '899-999-0000', NULL, 'MDOE@mial.com', 'Father'),
95 ('201', 'Kelly', 'Smith', NULL, '999-999-1000', NULL, 'KS@mial.com', 'Mother'),
96 ('202', 'Daryl', 'Smith', NULL, '799-999-2000', NULL, 'DS@mial.com', 'Father'),
97 ('203', 'Justin', 'Williams', NULL, '123-456-7890', NULL, 'JW@mial.com', 'Father'),
98 ('204', 'Kevin', 'Maroney', NULL, '234-567-8901', NULL, 'KME@mial.com', 'Father'),
99 ('205', 'Mary', 'Johson', NULL, '345-999-5000', NULL, 'MJO@mial.com', 'Mother'),
100 ('206', 'Michael', 'Johnson', NULL, '688-999-6000', NULL, 'MMMJ@mial.com', 'Father'),
101 ('207', 'Hope', 'Carlson', NULL, '999-999-7000', NULL, 'HC@mial.com', 'Mother'),
102 ('208', 'Rachel', 'Doe', NULL, '449-999-8000', NULL, 'RDOE@mial.com', 'Mother'),

```

```

94 • INSERT INTO PARENT VALUES('200', 'Michael', 'Doe', NULL, '899-999-0000', NULL, 'MDOE@mial.com', 'Father'),
95 ('201', 'Kelly', 'Smith', NULL, '999-999-1000', NULL, 'KS@mial.com', 'Mother'),
96 ('202', 'Daryl', 'Smith', NULL, '799-999-2000', NULL, 'DS@mial.com', 'Father'),
97 ('203', 'Justin', 'Williams', NULL, '123-456-7890', NULL, 'JW@mial.com', 'Father'),
98 ('204', 'Kevin', 'Maroney', NULL, '234-567-8901', NULL, 'KME@mial.com', 'Father'),
99 ('205', 'Mary', 'Johson', NULL, '345-999-5000', NULL, 'MJO@mial.com', 'Mother'),
100 ('206', 'Michael', 'Johnson', NULL, '688-999-6000', NULL, 'MMMJ@mial.com', 'Father'),
101 ('207', 'Hope', 'Carlson', NULL, '999-999-7000', NULL, 'HC@mial.com', 'Mother'),
102 ('208', 'Rachel', 'Doe', NULL, '449-999-8000', NULL, 'RDOE@mial.com', 'Mother'),
103 ('209', 'Brianna', 'Fields', NULL, '199-999-9000', NULL, 'BF@mial.com', 'Mother'),
104 ('210', 'Leslie', 'Donovan', NULL, '299-999-1100', NULL, 'LD@mial.com', 'Mother'),
105 ('211', 'Alfred', 'Doe', NULL, '399-999-1200', NULL, 'ADOE@mial.com', 'Father'),
106 ('212', 'Don', 'Lemon', NULL, '699-999-1300', NULL, 'DL@mial.com', 'Father'),
107 ('213', 'Michelle', 'Lemon', NULL, '099-999-1400', NULL, 'ML@mial.com', 'Mother'),
108 ('214', 'Joseph', 'Ackerman', NULL, '222-333-0000', NULL, 'JA@mial.com', 'Father');
109

```

```

10 #TASK 5 QUERY DATA BY AYESHA AFIA
11 • SELECT * FROM CLASS;
12 • SELECT * FROM STUDENT;
13 • SELECT * FROM TEACHER;
14 • SELECT * FROM PARENT;
15
16 • select concat(student.first_name, ' ', if(isnull(student.middle_name), '', student.middle_name), ' ', if(isn
17 • select class.level, class.color, concat(student.first_name, ' ', if(isnull(student.middle_name), '', studen
18 • select parent.first_name as Parent_Name, parent.email, student.first_name as Student_Name, class.level, cl
19 • select teacher.first_name as Teacher_Name, student.first_name as Student_Name, parent.FIRST_NAME as Parent

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

Tables_in_p3_a1_afia_ayesha

Result Grid
Form Editor

Result 7
Result 8 x
Read Only
Context Help
Snippet

Output

Action Output

#	Time	Action	Message
✓ 28	17:28:15	CREATE TABLE CLASS(CODE CHAR(2) PRIMARY KEY, LEVEL VARCHAR(10) NOT NU...	0 row(s) affected
✓ 29	17:28:15	CREATE TABLE STUDENT(ID INT PRIMARY KEY, FIRST_NAME VARCHAR(30) NOT N...	0 row(s) affected
✓ 30	17:28:15	CREATE TABLE TEACHER(ID INT PRIMARY KEY, FIRST_NAME VARCHAR(30) NOT N...	0 row(s) affected
✓ 31	17:28:15	CREATE TABLE PARENT(ID INT PRIMARY KEY, FIRST_NAME VARCHAR(30) NOT NU...	0 row(s) affected
✓ 32	17:28:16	INSERT INTO CLASS VALUES('GT', 'Turtles', 'Green', '25', '111-999-0000', '27', 'North West...	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0
✗ 33	17:28:16	INSERT INTO STUDENT VALUES('1', 'John', 'Michael', 'Doe', NULL, '2016-03-25', 'King', 'C...	Error Code: 1136. Column count doesn't match value count at row 1