DATABASE SYSTEM Project Phase2

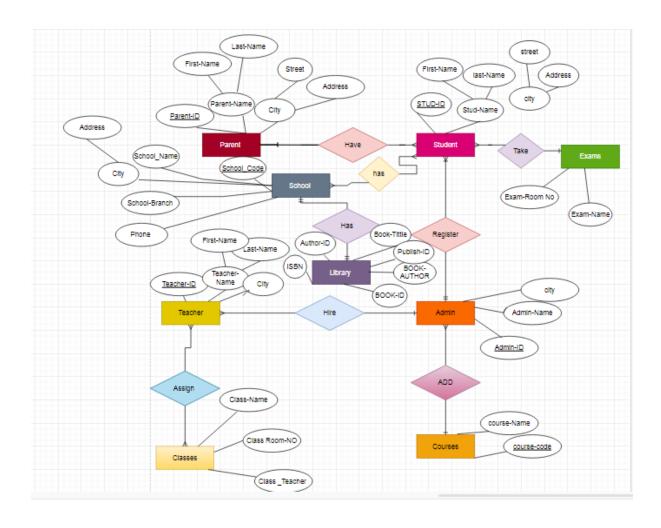


SAMAN MANSOOR	F2019332020
DATABASE SYSTEM	V1
SUBMITTED TO	KHAWAJA UABID UR RAHMAN

Project tittle:

School Management system

Phase 1: ERD



Student Table

Student_ID	Stud First_Name	Stud last_Name	City
1	Aliza	Ahmad	Lahore
2	Maria	Jawad	Karachi
3	Raffia	Asif	Islamabad

- a. Is there any partial dependency that exists in your tables?
- b. Have you found any transitive dependency in your tables? No
- c. All your tables in 3rd NF?

Parent Table

Parent _ID	Parent First_Name	Parent last_Name	City
	_	_	
1	Bilal	Ahmad	Lahore
2	Ayesha	Jawad	Karachi
3	Khalid	Asif	Islamabad

- a. Is there any partial dependency that exists in your tables?
- b. Have you found any transitive dependency in your tables? No
- c. All your tables in 3rd NF?

Teacher Table

Teacher_ID	Teacher First_Name	Teacher last_Name	City
1	Ahmad	Asif	Karachi
2	Maha	Jawad	Lahore
3	Ali	Awais	Islamabad

- a. Is there any partial dependency that exists in your tables?
- b. Have you found any transitive dependency in your tables? No
- c. All your tables in 3rd NF?

Admin Table

Admin	Admin First_Name	Admin Last_Name	City
1	Ahmad	Asif	Karachi
2	Maha	Jawad	Lahore
3	Ali	Awais	Islamabad

- a. Is there any partial dependency that exists in your tables?
- b. Have you found any transitive dependency in your tables?
- c. All your tables in 3rd NF?

Class Table

Class_no	Class_Name	Class Teacher
10	English	Rania
11	Urdu	Waniya
12	Math	Saniya

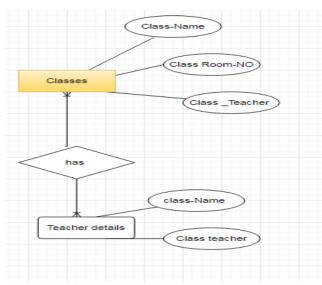
Table is in 1st and 2nd normal for

Teacher detail

Class_Name	Class Teacher
English	Rania
Urdu	Waniya
Math	Saniya

- a. Is there any partial dependency that exists in your tables?
- b. Have you found any transitive dependency in your tables? YES
- c. All your tables in 3rd NF?

YES



Course Table:

Course Code	course Name
001	English
009	Urdu
015	Math

- a. Is there any partial dependency that exists in your tables?
- b. Have you found any transitive dependency in your tables?
- c. All your tables in 3rd NF?

Exam table:

Exam Room No	Exam Name
23	Physics
24	Bio
25	Math

Table is in Normalize form

a. Is there any partial dependency that exists in your tables?

b. Have you found any transitive dependency in your tables?

c. All your tables in 3rd NF?

School Table

School code	School Name	Branch	Address	City	Phone no
A231	Punjab school	Johor town	1C2	Lahore	+923456773
B234	Punjab school	PIA	2C55	Lahore	+920988753
C456	Punjab school	MODEL Town	FJ block	Lahore	+9203564646
D786	Punjab school	Gulberg	M block	Lahore	04242450259

- a. Is there any partial dependency that exists in your tables?
- b. Have you found any transitive dependency in your tables?
- c. All your tables in 3rd NF?

Library Table

Book_ID	Book_tittle	Author Id	Book_Author	Publish date	Isbn
23	Smart Money Smart Kids	1	Dave Ramsey	2014-04-29 00:00:00	124578
36	Smart Money Smart Kids	3	Rachel Cruz	2020-04-19 00:00:00	354688

2nd Normal form

Book Details

Book_ID	Book_tittle
23	Smart Money Smart Kids
36	Smart Money Smart Kids

3rd Normal form

Author details

Book_ID	Author Id	Book_Author
23	1	Dave Ramsey
36	3	Rachel Cruz

Author Details

Book_tittle	Book_Author
Smart Money Smart Kids	Dave Ramsey
Smart Money Smart Kids	Rachel Cruz

a. Is there any partial dependency that exists in your tables?

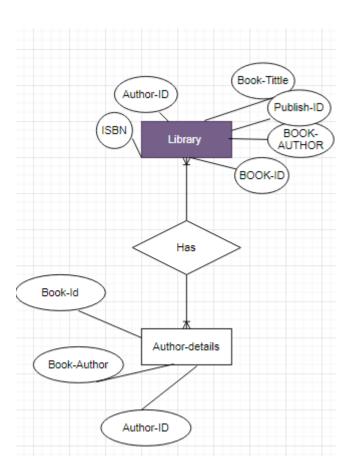
YES

B. Have you found any transitive dependency in your tables?

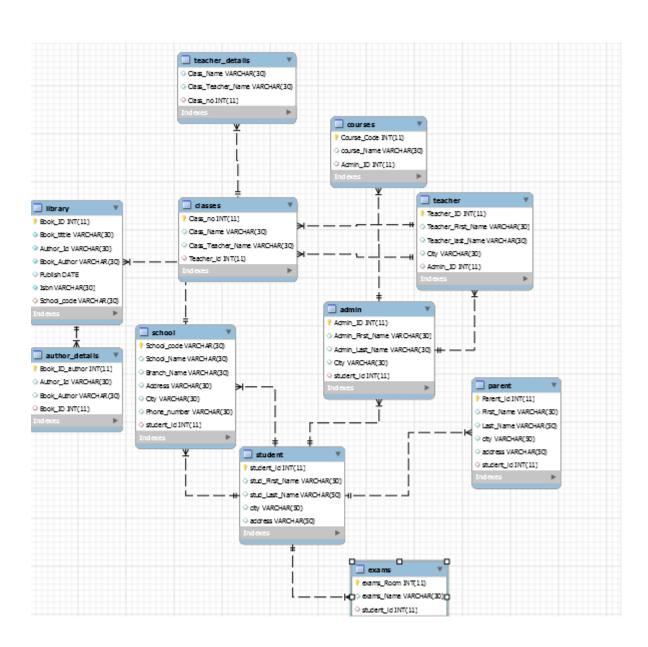
YES

C. All your tables in 3rd NF?

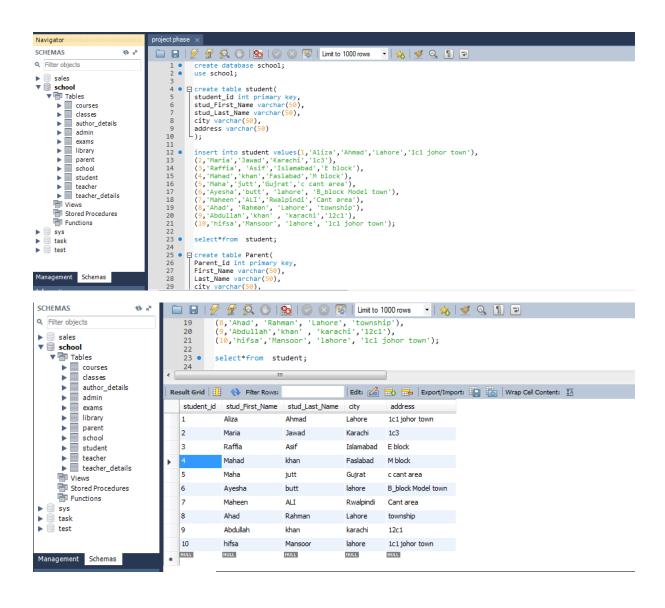
YES

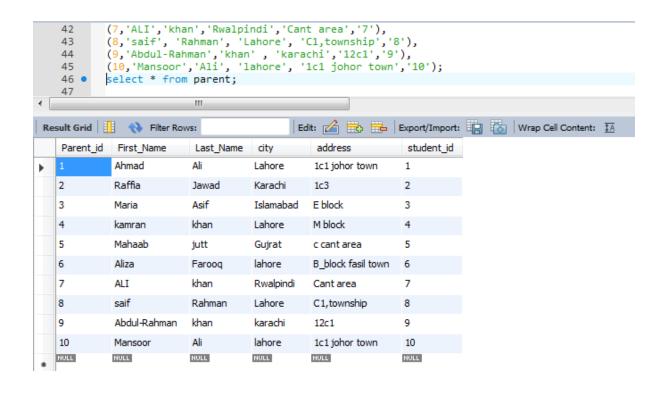


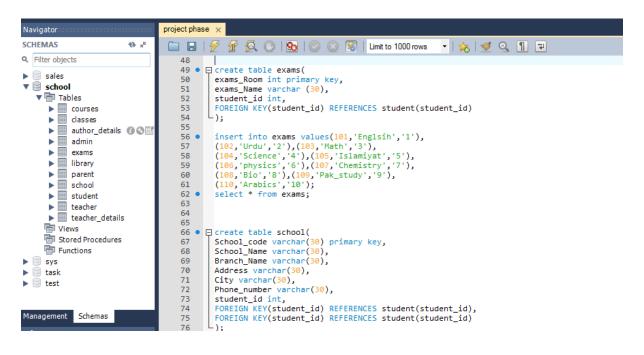
After step-1 create all tables in MYSQL Workbench (Paste screen shot Here of your normalized ER diagram using MySQL Workbench [hint: use reverse engineering in MYSQL Workbench]). Also paste screenshot of all tables.



After step-2 insert at-least 10 records and maximum as you can in all your Tables. (Paste screenshot of output and query insertions)

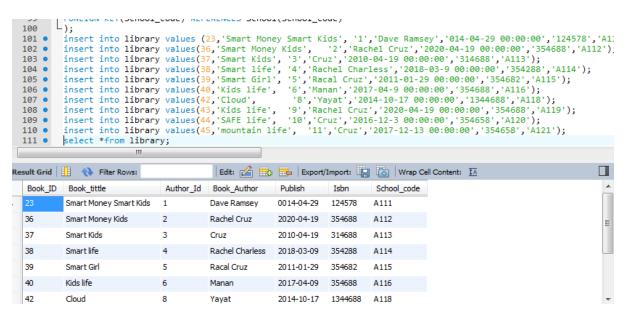


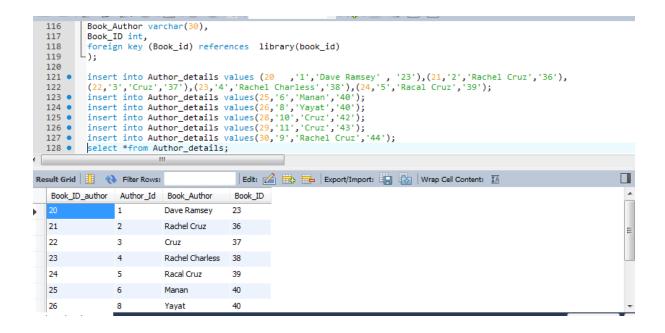


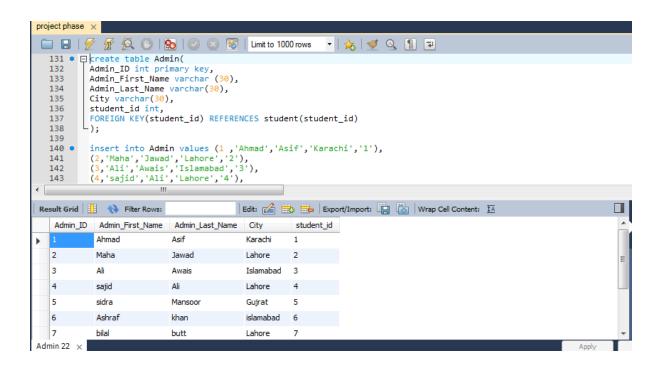


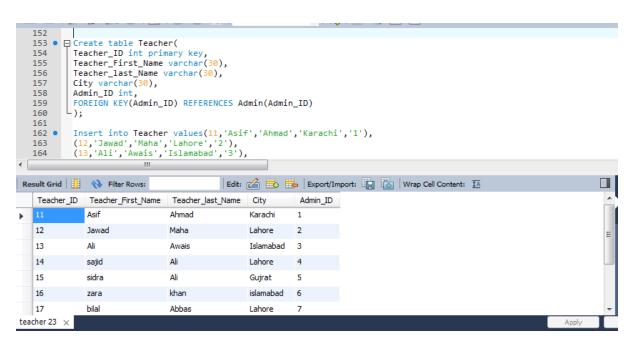
```
(104, 'Science', '4'), (105, 'Islamiyat', '5'),
                        (106, 'physics', '6'), (107, 'Chemistry', '7'),
        59
                        (108, 'Bio', '8'), (109, 'Pak_study', '9'),
        60
                        (110,'Arabics','10');
        61
        62
                        select * from exams;
        63
                                                        Ш
 Result Grid
                                                                                            Edit: 👍 🖶 Export/Import: 📳 👸 Wrap Cell (
                               Filter Rows:
        exams_Room
                                 exams_Name student_id
                                Englsih
       102
                                Urdu
                                                          2
                                                          3
       103
                                Math
       104
                                Science
                                                          4
       105
                                Islamiyat
                                                          5
       106
                                                          6
                                physics
       107
                                Chemistry
                                                          7
       108
                                Bio
                                                          8
       109
                                Pak_study
                                                          9
       110
                                Arabics
                                                          10
     NULL
                                NULL
                                                          NULL
      76
      77
                  insert into school values('A111', 'Punjab school', 'johor town', '1C1', 'Lahore', '+92345678930', '1'),
    ('A112', 'Punjab school', 'Johor studentstudentschooltown', '1C2', 'Lahore', '+92345677309', '2'),
    ('A113', 'Punjab school', 'PIA', '2C55', 'Lahore', '+92098875322', '3'),
    ('A114', 'Punjab school', 'MODEL Town', 'FJ block', 'Lahore', '+9203564646', '4'),
    ('A115', 'Punjab school', 'Gulberg', 'M block', 'Lahore', '04242450259', '5'),
    ('A116', 'Punjab school', 'Muslim town', 'C2 block', 'Lahore', '+9234567730', '6'),
    ('A118', 'Punjab school', 'PIA', '2j55', 'Lahore', '+9200988753', '7'),
    ('A119', 'Punjab school', 'MODEL Town', 'F1 block', 'Lahore', '+92983564646', '8'),
    ('A120', 'Punjab school', 'Gulberg', 'M block', 'Lahore', '04242450259', '9'),
    ('A121', 'Punjab school', 'johor town', '1M1', 'Lahore', '+92345678930', '10');
      78 •
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Edit: 🔏 📆 🖶 | Export/Import: 📳 🐻 | Wrap Cell Content: 🏗
                                                                                          Address City
                         School_Name
                                                                                                                     Phone_number
    A111
                        Punjab school
                                             johor town
                                                                                          1C1
                                                                                                        Lahore
                                                                                                                     +92345678930
     A112
                        Punjab school
                                             Johor studentstudentschooltown
                                                                                         1C2
                                                                                                        Lahore
                                                                                                                     +92345677309
                        Punjab school
                                                                                                                     +92098875322
     A113
                                             PTA
                                                                                          2055
                                                                                                        Lahore
                                                                                                                                           3
     A114
                        Punjab school MODEL Town
                                                                                         FJ block
                                                                                                        Lahore
                                                                                                                     +9203564646
     A115
                        Punjab school
                                             Gulberg
                                                                                         M block
                                                                                                        Lahore
                                                                                                                    04242450259
                        Puniab school
                                             Muslim town
                                                                                         C2 block
                                                                                                        Lahore
                                                                                                                    +9234567730
     A116
                                                                                                                                           6
                                                                                                                     +9200988753
     A118
                        Punjab school
                                                                                          2j55
                                                                                                        Lahore
school 19
```

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 SCHEMAS
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Q Filter objects
                                                                                                                 91 • ☐ create table library (
                                                                                                                                       Book_ID int primary key,
Book_tittle varchar(30) not NULL,
Author_Id varchar(30) NOT NULL,
Book_Author varchar(30) NOT NULL,
                                                                                                                  92
       sales
         school
Tables
                                                                                                                 95
96
                 courses classes
                                                                                                                                          Publish date,
Isbn varchar(30) NOT NULL,
                                                                                                                                          TSDN varchar(30) NOT NULL,
School_code varchar(30),
FOREIGN KEY(School_code) REFERENCES School(School_code)
                                  classes
                  author_details
admin
exams
library
                                                                                                                                  FOREIGN KEY(School_code) REFERENCES School(School_code)
);
insert into library values (23, 'Smart Money Smart Kids', '1', 'Dave Ramsey', '014-04-29 00:00:00', '124578', 'A111');
insert into library values(36, 'Smart Money Kids', '2', 'Rachel Cruz', '2020-04-19 00:00:00', '354688', 'A112');
insert into library values(37, 'Smart Kids', '3', 'Cruz', '2010-04-19 00:00', '314688', 'A113');
insert into library values(38, 'Smart life', '4', 'Rachel Charless', '2018-03-9 00:00:00', '354288', 'A114');
insert into library values(39, 'Smart Girl', '5', 'Racal Cruz', '2011-01-29 00:00:00', '354688', 'A115');
insert into library values(49, 'Kids life', '6', 'Manan', '2017-04-9 00:00:00', '354688', 'A116');
insert into library values(42, 'Cloud', '8', 'Yayat', '2014-10-17 00:00:00', '1344688', 'A118');
insert into library values(43, 'Kids life', '9', 'Rachel Cruz', '2020-04-19 00:00:00', '354688', 'A119');
insert into library values(44, 'SAFE life', '10', 'Cruz', '2016-12-3 00:00:00', '354658', 'A120');
insert into library values(45, 'mountain life', '11', 'Cruz', '2017-12-13 00:00:00', '354658', 'A121');
select *from library;
                                                                                                             99
100
101 •
102 •
103 •
104 •
105 •
106 •
107 •
                                  school
                   student
teacher
teacher_details
                ₩ Vie
                                                                                                              110
                 Functions
                                                                                                                                   Create table Author_details(
               task
                                                                                                                                        |Create table Author_details(
| Book_ID_author int primary key,
| Author_Id varchar(30),
| Book_Author varchar(30),
| Book_Author varchar(30),
| Book_ID int,
| Foreign key (Book_id) references | library(book_id)
               test
 Management Schemas
```

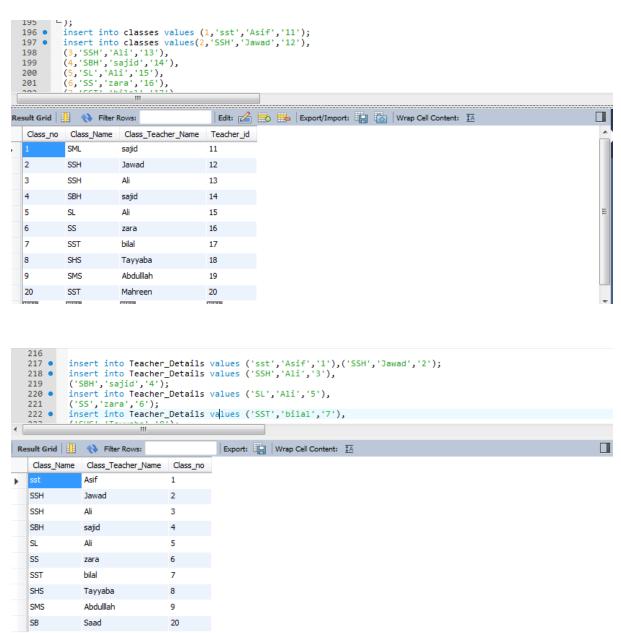








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  174 • ☐ Create table courses(
          Course_Code int primar
  176
          course_Name varchar(30),
  177
          Admin ID int,
  178
           FOREIGN KEY(Admin_ID) REFERENCES Admin(Admin_ID)
  179
  180
          insert into courses values(101,'Math','1'),
(102,'English',2),(103,'urdu','3'),(104,'science','4'),
(105,'computer','5'),(106,'Bio','6'),(107,'physics','7'),(108,'chemistry','8'),
(109,'Arabic','9'),(110,'Islamiyat','10');
  181 •
  182
  183
  184
  185 •
          select * from courses;
  186
                                                                                                                       | Edit: 👍 🖶 | Export/Import: 📳 💩 | Wrap Cell Content: 🏗
   Course_Code course_Name Admin_ID
              Math
                           1
   102
              English
                                                                                                                        Ξ
   103
              urdu
   104
                           4
              science
   105
               computer
                           5
   106
              Bio
                           6
   107
              physics
 🗀 🔚 | 💅 🙀 👰 🕛 | 😘 | 🐷 🔞 | Limit to 1000 rows
                                                                              - | 🏡 | 💇 🔍 🗻 🖃
   188 • ☐ create table Classes(
   189
              Class_no int primary key,
   190
              Class_Name varchar(30),
   191
              Class_Teacher_Name varchar(30),
   192
              Teacher_id int,
   193
              FOREIGN KEY(Teacher_id) REFERENCES Teacher(Teacher_id),
   194
              FOREIGN KEY(Teacher_id) REFERENCES Teacher(Teacher_id)
             L);
   195
   196 •
              insert into classes values (1,'sst','Asif','11');
   197 •
              insert into classes values(2,'SSH','Jawad','12'),
              (3,'SSH','Ali','13'),
(4,'SBH','sajid','14'),
(5,'SL','Ali','15'),
(6,'SS','zara','16'),
   198
   199
   200
   201
              (7,'SST','bilal','17'),
(8,'SHS','Tayyaba','18'),
(9,'SMS','Abdulllah','19'),
(20,'SST','Mahreen','20');
   202
   203
   204
   205
   206
   207 •
              Select * from classes;
   208
   209
   210 • ☐ create table Teacher_Details(
   211
              Class_Name varchar (30),
   212
              Class_Teacher_Name varchar(30),
   213
              Class_no int,
   214
              FOREIGN KEY(Class_no) REFERENCES classes(Class_no)
   215
            L);
   216
```



Tazehar Datzila 26 🗤