

***Database Lab***

***SMESTER PROJECT***

**Submitted to:**

Ma’am Ayesha

**Submitted by:**

Pawan Kumar 18i-0715 F

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BSCS

**Submission Date**

June 7, 2020

## **C:\Users\Pawan Kumar\Searches\Videos\Downloads\WhatsApp Image 2020-06-07 at 9.37.04 PM.jpegERD**

# Parent:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **CNIC** | **Name** | **Phone** | **Partner** | **Address** | **Relation** | **Status** | **Email** |
| 3310244444442 | Muhammad | 03025678644 | 4456786543221 | RAJABAZAR(PINDI | Father | 1 | h.y@gmail.com |
| 4357890876541 | Hafeez | 03037654356 | 1765432887663 | F-10(ISB) | Father | 1 | h-z@gmail.com |
| 4456786543221 | Fatima | 03027897890 | 3310244444442 | RAJABAZAR(PINDI) | Mother | 1 | m\_h@gmail.com |
| 1765432887663 | Zainab | 03038765456 | 4357890876541 | F-10(ISB) | Mother | 1 | z.k@gmail.com |
| 3456789098763 | Shoaib | 03035789876 | 3310234654326 | F-11(ISB) | Father | 1 | s-b@gmail.com |
| 3310234654326 | Laiba | 03035678644 | 3456789098763 | F-11(ISB) | Mother | 1 | [l-a@gmail.com](mailto:l-a@gmail.com) |
| 3310234654324 | Ayesha | 03018765456 | 3310244444443 | G-11/3 | Mother | 1 |  |
| 3310244444443 | Ahmad | 03015789876 | 3310234654324 | G-11/4 | Father | 1 |  |
| 4456786543222 | Fatima | 03015678644 | 4357890876542 | G-9/1 | Mother | 1 | [f.t@gmail.com](mailto:f.t@gmail.com) |
| 4357890876542 | Atif | 03017897890 | 4456786543222 | G-9/2 | Father | 1 | a.s.f@gmail.com |
| 1765432887664 | Mariyam | 03027654356 | 3456789098764 | G-9/3 | Mother | 1 |  |
| 3456789098764 | Aslam | 03028765456 | 1765432887664 | G-9/4 | Father | 1 | [a.s@gmail.com](mailto:a.s@gmail.com) |
| 3310234654323 | Sana | 03025789876 | 3310244444442 | F-10/1 | Mother | 1 | [s.n@gmail.com](mailto:s.n@gmail.com) |
| 3310244444442 | Muhammad | 03025678644 | 3310234654323 | F-10/1 | Father | 1 |  |
| 4456786543221 | Fatima | 03027897890 | 4357890876541 | F-10/3 | Mother | 1 | m.h@gmail.com |
| 4357890876541 | Hafeez | 03037654356 | 4456786543221 | F-10/4 | Father | 1 | [h.z@gmail.com](mailto:h.z@gmail.com) |
| 1765432887663 | Zainab | 03038765456 | 3456789098763 | F-11/1 | Mother | 1 | [z.b@gmail.com](mailto:z.b@gmail.com) |
| 3456789098763 | Shoaib | 03035789876 | 1765432887663 | F-11/2 | Father | 1 | [s.b@gmail.com](mailto:s.b@gmail.com) |
| 3310234654326 | Laiba | 03035678644 | 3310244444445 | F-11/3 | Mother | 1 | [l.a@gmail.com](mailto:l.a@gmail.com) |
| 3310244444445 | Akhter | 03037897890 | 3310234654326 | F-11/4 | Father | 1 |  |
| 4456786543224 | Zara | 03047654356 | 4357890876544 | F-9/1 | Mother | 1 |  |

Parent History:

|  |  |  |  |
| --- | --- | --- | --- |
| **CNIC** | **Phone** | **Address** | **Email** |
| 4357890876542 |  | Sadiqabad |  |
| 1765432887660 | 03150000000 |  |  |
| 3456789098767 |  |  | z.z@gmail.com |
| 3310234654329 |  | Ghauri Town |  |
| 3310234654327 | 03447897890 |  |  |
| 3310244444446 |  |  | y.y@gmail.com |
| 3310234654325 |  | Bahria Town |  |
| 1765432887660 | 03331000100 | College Road | a.a@gmail.com |

Guardian:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CNIC** | **Name** | **Gender** | **Phone** | **Relation** | **Email** |
| 3320234654325 | Ali | M | 03057654356 | Uncle | [a.i@gmail.com](mailto:a.i@gmail.com) |
| 3320244444444 | Iram | F | 03058765456 | Aunt | [i.m@gmail.com](mailto:i.m@gmail.com) |
| 4466786543223 | Ahmad | M | 03055789876 | Uncle |  |
| 4357890876543 | Fatima | F | 03055678644 | Aunt | [f.a@gmail.com](mailto:f.a@gmail.com) |
| 1775432887665 | Ayesha | F | 03057897890 | Aunt |  |
| 3466789098765 | Khadeeja | F | 03067654356 | Aunt | [k.j@gmail.com](mailto:k.j@gmail.com) |

Guardian History:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CNIC** | **Name** | **Gender** | **Phone** | **Relation** | **Email** |
| 3320234654325 |  |  | 03055435432 |  |  |
| 3320244444444 |  |  |  |  | [m.m@gmail.com](mailto:m.m@gmail.com) |
| 4466666666223 | Amna | F | 03055000876 | Aunt | [a.a@gmail.com](mailto:a.a@gmail.com) |
| 4357890876543 |  |  |  |  | [f.f@gmail.com](mailto:f.f@gmail.com) |
| 1775432887665 |  |  | 03057777890 |  |  |

Student:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **StudID** | **Name** | **Gender** | **PhotoID** | **DOB** | **Reg\_Date** | **Section** | **M\_CNIC** | **F\_CNIC** | **G\_CNIC** |
| 0001 | Ali | M | 0001\_0 | 1/1/2017 | 1/1/2020 | MQM | 3310234654325 | 3310244444444 | 3320234654325 |
| 0002 | Atif | M | 0002\_0 | 1/1/201 | 1/2/2020 | MQJ | 3456789098760 | 1111111111111 | 3320244444444 |
| 0003 | Ahmad | M | 0003\_0 | 1/1/2016 | 1/1/2020 | MQM | 4456786543223 | 4357890876543 | 4466786543223 |
| 0004 | Ahmad | M | 0004\_0 | 1/1/2015 | 1/1/2020 | MNM | 4357890876540 | 1765432887660 | 4357890876543 |
| 0005 | Arslan | M | 0005\_0 | 1/1/2014 | 1/3/2020 | MNN | 1765432887665 | 3456789098765 | 1775432887665 |
| 0006 | Asif | M | 0006\_1 | 1/1/2013 | 1/3/2018 | MSD | 4456786543229 | 4357890876549 | 3320244444443 |
| 0007 | Azmat | M | 0007\_1 | 1/2/2012 | 1/2/2018 | MSD | 3310234654324 | 3310244444443 | 3320234654324 |
| 0008 | Amna | F | 0008\_1 | 1/1/2011 | 1/2/2018 | MSJ | 3310234654329 | 3310244444449 | 4357890876542 |
| 0009 | Aslam | M | 0009\_1 | 1/1/2010 | 1/1/2018 | MSL | 4456786543222 | 4357890876542 | 4466786543222 |
| 0010 | Bilal | M | 0010\_1 | 1/2/2009 | 1/1/2018 | MSQ | 4456786543224 | 4357890876544 | 4156786543222 |
| 0011 | Bushra | F | 0011\_1 | 1/2/2008 | 1/3/2018 | MSQ | 1765432887664 | 3456789098764 | 1775432887664 |
| 0012 | Dawood | M | 0012\_1 | 1/1/2007 | 1/4/2018 | RT-boy | 3310234654327 | 3310244444446 | 1665432887665 |
| 0013 | Ertugal | M | 0013\_0 | 1/3/2006 | 1/5/2018 | RT-boy | 3310234654323 | 3310244444442 | 3210244444444 |
| 0014 | Fiza | F | 0014\_2 | 1/4/2005 | 1/7/2018 | RM-girl | 3310234654327 | 3310244444446 | 1665432887665 |
| 0015 | Farhan | M | 0015\_1 | 1/5/2006 | 1/8/2018 | RT-boy | 4456786543221 | 4357890876541 | 4257890876543 |
| 0016 | Farrukh | M | 0016\_2 | 1/4/2006 | 1/9/2018 | RT-boy | 1765432887663 | 3456789098763 | 3356789098765 |
| 0017 | Fatima | F | 0017\_0 | 1/3/2006 | 10/1/2020 | RT-girl | 1765432887663 | 3456789098763 | 3356789098765 |
| 0018 | Farha | F | 0018\_0 | 1/5/2005 | 10/1/2020 | RM-girl | 1765432887663 | 3456789098763 | 3356789098765 |
| 0019 | Humna | F | 0019\_0 | 1/7/2007 | 1/1/2020 | MSQ | 3310234654326 | 3310244444445 | 3210244444443 |
| 0020 | Hania | F | 0020\_0 | 1/5/2008 | 11/1/2020 | MSQ | 1765432887663 | 3456789098763 | 3356789098765 |
| 0021 | Haris | M | 0021\_2 | 1/2/2008 | 12/1/2018 | MSQ | 4456786543224 | 4357890876544 | 4156786543222 |

Photo History:

|  |  |
| --- | --- |
| **StudentID** | **Previous\_PhotoID** |
| 0006 | 0006\_0 |
| 0007 | 0007\_0 |
| 0008 | 0008\_0 |
| 0009 | 0009\_0 |
| 0010 | 0010\_0 |
| 0011 | 0011\_0 |
| 0012 | 0012\_0 |
| 0014 | 0014\_0 |
| 0014 | 0014\_1 |
| 0015 | 0015\_0 |
| 0016 | 0016\_0 |
| 0016 | 0016\_1 |
| 0021 | 0021\_0 |
| 0021 | 0021\_1 |

Section History:

|  |  |  |  |
| --- | --- | --- | --- |
| **StudID** | **Ch\_Date** | **Previous\_Section** | **Reason** |
| 0098 | 1/5/2020 | MNM | Too much disturbance |
| 0099 | 1/5/2020 | MNN | Fighting |
| 0100 | 10/4/2020 | MNM | Misbehavior |
| 0064 | 12/7/2020 | MSJ | Fighting |
| 0065 | 23/7/2019 | MSL | Misbehavior |
| 0024 | 12/2/2020 | MQJ | Fighting |
| 0025 | 11/5/2020 | MQM | Misbehavior |

Accompany table : (In case female guardian information has not already been entered)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **StudentD** | **CNIC** | **Name** | **Relation** | **isPreg** | **Reason** |
| 0038 | 8809012758066 | Nazia | Aunt | No | Mother got ill |
| 0050 | 8768768768768 | Rashda | Aunt | No | Mother got ill |
| 0027 | 8999999965656 | Kalsoom | Aunt | No | Mother got ill |
| 0001 | 8876987345333 | Nusrat | Aunt | No | Mother got ill |

Course History:

|  |  |  |  |
| --- | --- | --- | --- |
| **StudentID** | **CourseID** | **Year** | **Grade** |
| 0006 | 20 | 2018 | A |
| 0007 | 20 | 2018 | A |
| 0008 | 20 | 2018 | A |
| 0009 | 20 | 2018 | A |
| 0010 | 20 | 2018 | A |
| 0011 | 20 | 2018 | A |
| 0012 | 20 | 2018 | A |
| 0014 | 20 | 2018 | A |
| 0015 | 20 | 2018 | A |
| 0016 | 20 | 2018 | A |
| 0021 | 20 | 2018 | A |

Class:

|  |  |  |
| --- | --- | --- |
| **ClassID** | **LowerAgeLimit** | **UpperAgeLimit** |
| 01 | 3 | 4 |
| 02 | 5 | 6 |
| 03 | 7 | 8 |
| 04 | 9 | 10 |
| 05 | 11 | 12 |
| 06 | 13 | 14 |
| 07 | 15 | 16 |

Section:

|  |  |
| --- | --- |
| SectionName | ClassID |
| A | 1 |
| B | 1 |
| A | 2 |
| B | 2 |
| A | 3 |
| B | 3 |
| A | 4 |
| B | 4 |
| A | 5 |
| B | 5 |
| A | 6 |
| B | 6 |

Course:

|  |  |  |
| --- | --- | --- |
| **CourseID** | **Name** | **isActive** |
| 10 | Family Management | 0 |
| 20 | Psychology | 0 |
| 30 | Maths | 1 |

Course Registration:

|  |  |  |
| --- | --- | --- |
| **VoucherNo** | **StudentID** | **CourseID** |
| 30001 | 0001 | 30 |
| 30002 | 0002 | 30 |
| 30003 | 0003 | 30 |
| 30004 | 0004 | 30 |
| 30005 | 0005 | 30 |
| 30006 | 0006 | 30 |
| 30007 | 0007 | 30 |
| 30008 | 0008 | 30 |
| 30009 | 0009 | 30 |
| 30010 | 0010 | 30 |
| 30011 | 0011 | 30 |
| 30012 | 0012 | 30 |
| 30013 | 0013 | 30 |
| 30014 | 0014 | 30 |
| 30015 | 0015 | 30 |
| 30016 | 0016 | 30 |
| 30017 | 0017 | 30 |
| 30018 | 0018 | 30 |
| 30019 | 0019 | 30 |
| 30020 | 0020 | 30 |
| 30021 | 0021 | 30 |

## **SQL Statements**

**-Creating tables and relations**

create table Parent(

cnic varchar2(13),

name varchar2(20) NOT NULL,

Phone varchar2(11),

relation varchar2(6) check (relation in ('MOTHER','FATHER')) NOT NULL,

partner varchar2(13),

status varchar2(5) check (status in ('DEAD', 'ALIVE')) NOT NULL,

email varchar2(20),

address varchar2(35),

CONSTRAINT PK\_Parent PRIMARY KEY(cnic)

);

create table Parent\_Record(

cnic varchar2(13),

update# number,

Phone varchar2(11),

email varchar2(25),

address varchar2(40),

CONSTRAINT PK\_Parent\_Record PRIMARY KEY(cnic,update#),

CONSTRAINT FK1\_Parent\_Record2 Foreign Key(cnic) references Parent(cnic)

);

create table Guardian(

cnic varchar2(13),

Name varchar2(40) NOT NULL,

Gender varchar2(1) check( Gender in ('M','F')) NOT NULL,

Phone varchar2(11),

relation varchar2(6) check (relation not in ('MOTHER','FATHER')) NOT NULL,

email varchar2(25),

CONSTRAINT PK\_Guardian PRIMARY KEY(cnic)

);

create table Guardian\_Record(

cnic varchar2(13),

update# number,

Phone varchar2(15),

email varchar2(25),

CONSTRAINT PK\_Guardian\_Record PRIMARY KEY(cnic,update#),

CONSTRAINT FK\_Guardian\_Record Foreign Key(cnic) references Guardian

);

Create table class(

ClassID Number(10),

L\_AgeLimit Number(2) NOT NULL,

U\_AgeLimit Number NOT NULL,

Constraint PK\_Class PRIMARY KEY(ClassID)

);

Create table section(

Letter\_S varchar2(7),

ClassID Number(10) NOT NULL,

Constraint PK\_Section Primary Key(Letter\_s,classid),

Constraint FK\_Section Foreign Key(ClassID) References class(ClassID)

);

Create table Student(

StudentID Number(5),

Name varchar2(40) NOT NULL,

Gender varchar2(1) check( Gender in ('M','F')) NOT NULL,

PhotoID varchar2(30),

DOB date NOT NULL,

Class Number(1),

Section varchar2(7) NOT NULL,

M\_CNIC varchar2(13) NOT NULL,

F\_CNIC varchar2(13) NOT NULL,

G\_CNIC varchar2(13) NOT NULL,

Constraint PK\_Student Primary Key(StudentID),

Constraint FK1\_Student Foreign Key(M\_CNIC) references parent(cnic),

Constraint FK2\_Student Foreign Key(F\_CNIC) references parent(cnic),

Constraint FK3\_Student Foreign Key(G\_CNIC) references guardian(cnic)

);

alter table student add reg\_date date;

Create table Photo\_Record(

StudentID Number(5),

Update# Number,

Prev\_PhotoID varchar2(30) NOT NULL,

Constraint PK\_Photo\_Record Primary key(StudentID,Update#),

Constraint FK\_Photo\_Record Foreign key(StudentID) references Student(StudentID)

);

Create table accompany(

StudentID Number(5),

visit# Number,

CNIC varchar2(13) NOT NULL,

Name varchar2(40) NOT NULL,

Relation varchar2(15),

A\_Date date,

isPreg varchar2(1) check( isPreg in ('Y','N')) NOT NULL,

Reason varchar(50),

CONSTRAINT PK\_Accompany Primary Key(StudentID,visit#),

Constraint FK\_Accompany Foreign Key(StudentID) references student(StudentID)

)

Create table sec\_history(

StudentID Number(5),

Change# number,

Prev\_Section varchar2(7) NOT NULL,

Reason varchar2(40),

Constraint PK\_sec\_History PRIMARY KEY(StudentID,change#),

Constraint FK\_sec\_history Foreign key(StudentID) references Student(StudentID)

);

alter table sec\_history add ch\_date date;

Create table Course(

CourseID Number(10),

CName varchar2(20),

isActive varchar2(1) Check(isActive in('Y','N')),

Constraint PK\_Course Primary key(CourseID)

);

Create table course\_reg(

Voucher# Number(20),

StudentID Number(5) NOT NULL,

CourseID Number(10) NOT NULL,

Constraint PK\_course\_reg Primary Key(Voucher#),

Constraint FK1\_course\_reg Foreign Key(StudentID) references Student(StudentID),

Constraint FK2\_course\_reg Foreign Key(CourseID) references course(CourseID)

);

Create table Course\_History(

StudentID Number(5),

CourseID Number(10),

Year Number(4),

Grade varchar2(2) check(Grade in('A+','A','B','C','D','F')),

Constraint PK\_Course\_History PRIMARY KEY(StudentID,CourseID,Year),

Constraint FK1\_Course\_History Foreign Key(StudentID) references Student(StudentID),

Constraint FK2\_Course\_History Foreign Key(CourseID) references Course(CourseID)

);

**Populating Tables**

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values( '3310244444442','Muhammad','FATHER','03025678644','RAJABAZAR(PINDI)','ALIVE',null, '4456786543221');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('4456786543221','Fatima' ,'MOTHER', '03027897890','RAJABAZAR(PINDI)','ALIVE','m-h@gmail.com', '3310244444442');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('4357890876541','Hafeez','FATHER', '03037654356','F-10(ISB)','ALIVE','h-z@gmail.com', '1765432887663');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('1765432887663','Zainab','MOTHER', '03038765456','F-10(ISB)','ALIVE','z-b@gmail.com', '4357890876541');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3456789098763','Shoaib','FATHER', '03035789876','F-11(ISB)','ALIVE','s-b@gmail.com', '3310234654326');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3310234654326','Laiba' ,'MOTHER', '03035678644','F-11(ISB)','ALIVE','l-a@gmail.com', '3456789098763');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3310244444445','Akhter','FATHER', '03037897890','F-8(ISB)', 'ALIVE',null, '4456786543224');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('4456786543224','Zara' ,'MOTHER','03047654356','F-8(ISB)','ALIVE',null, '3310244444445');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('4357890876544','Shahid','FATHER', '03048765456','F-9(ISB)','ALIVE',null,'1765432887666') ;

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('1765432887666','Anabia','MOTHER', '03045789876','F-9(ISB)','ALIVE','a-n@gmail.com', '4357890876544');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3456789098766','Kamran','FATHER', '03045678644','G-8(ISB)','ALIVE',null, '3310234654327');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3310234654327','Uzma' ,'MOTHER', '03047897890','G-8(ISB)','ALIVE',null, '3456789098766');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3310244444446','Umer' ,'FATHER', '03057654356','G-9(ISB)','ALIVE',null,'4456786543225');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('4456786543225','Nazia','MOTHER', '03058765456','G-9(ISB)','ALIVE',null, '3310244444446');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('4357890876545','Usman','FATHER', '03055789876','G-10(ISB)','ALIVE',null, '1765432887667');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('1765432887667','Hafsa','MOTHER', '03055678644','G-10(ISB)','ALIVE','h-a@gmail.com', '4357890876545');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3456789098767','Rashid','FATHER', '03057897890','G-11(ISB)','ALIVE','r-h@gmail.com', '3310234654329');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3310234654329','Humna' ,'MOTHER', '03067654356','G-11(ISB)','ALIVE','h-m@gmail.com', '3456789098767');

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values(3310244444449,'Akmal','FATHER',03068765456,'MURREEROAD(PINDI)','ALIVE','a-k@gmail.com',3320234654329);

insert into parent(cnic,name, relation ,phone, address, status, email, partner) values('3320234654329','Amna', 'MOTHER', '03067654356','MURREEROAD(PINDI)','DEAD','a-m@gmail.com', '3310244444449');

alter table Parent

add constraints

FK\_Parent Foreign KEY(partner) references Parent(cnic);

insert into Parent\_Record(cnic,update#,Phone,Address,Email) values('3310244444449',1,NULL,'Malir',NULL);

insert into Parent\_Record(cnic,update#,Phone,Address,Email) values('3456789098766',1, '03150000000',NULL,NULL);

insert into Parent\_Record(cnic,update#,Phone,Address,Email) values('3456789098767',1,NULL,NULL,'z.z@gmail.com');

insert into Parent\_Record(cnic,update#,Phone,Address,Email)

values('3310234654329',1,NULL,'Ghauri Town',NULL);

insert into Parent\_Record(cnic,update#,Phone,Address,Email) values('3310234654327',1, '03447897890',NULL,NULL);

insert into Parent\_Record(cnic,update#,Phone,Address,Email) values('3310244444446',1,NULL,NULL,'y.y@gmail.com');

insert into class(ClassID,L\_AgeLimit,U\_AgeLimit) values(01, 3, 4);

insert into class(ClassID,L\_AgeLimit,U\_AgeLimit) values(02, 5, 6);

insert into class(ClassID,L\_AgeLimit,U\_AgeLimit) values(03, 7, 8);

insert into class(ClassID,L\_AgeLimit,U\_AgeLimit) values(04, 9, 10);

insert into class(ClassID,L\_AgeLimit,U\_AgeLimit) values(05, 11, 12);

insert into class(ClassID,L\_AgeLimit,U\_AgeLimit) values(06, 13, 14);

insert into class(ClassID,L\_AgeLimit,U\_AgeLimit) values(07 ,15, 16);

insert into section(Letter\_S,classID) values('A',1);

insert into section(Letter\_S,classID) values('B',1);

insert into section(Letter\_S,classID) values('A',2);

insert into section(Letter\_S ,classID) values('B',2);

insert into section(Letter\_S ,classID) values('A',3);

insert into section(Letter\_S ,classID) values('A',4);

insert into section(Letter\_S ,classID) values('B',4);

insert into section(Letter\_S ,classID) values('C',4);

insert into section(Letter\_S ,classID) values('A',5);

insert into section(Letter\_S,classID) values('A',6);

insert into section(Letter\_S,classID) values('B',6);

insert into section(Letter\_S,classID) values('A',7);

insert into section(Letter\_S,classID) values('B',7);

insert into guardian (cnic,name,Phone,Relation,email,gender) values('3310234654325',' Ali', '03057654356',' Uncle','a.i@gmail.com', 'M');

insert into guardian (cnic,name,Phone,Relation,email,gender) values('4357890876540',' Iram', '03058765456',' Aunt','I.m@gmail.com','F');

insert into guardian (cnic,name,Phone,Relation,email,gender) values('3310234654324',' Ahmad', '03055789876',' Uncle','','M');

insert into guardian (cnic,name,Phone,Relation,email,gender) values('1765432887664',' Fatima', '03055678644',' Aunt',' f.a@gmail.com','F');

insert into guardian (cnic,name,Phone,Relation,email,gender) values('3310234654323',' Ayesha', '03057897890',' Aunt','','F');

insert into guardian (cnic,name,Phone,Relation,email,gender) values('1765432887663',' Khadeeja', '03067654356',' Aunt', 'k.j@gmail.com','F');

insert into guardian (cnic,name,Phone,Relation,email,gender) values('3310234654326',' Arslan', '03068765456',' Uncle', 'a.l@gmail.com','M');

insert into Guardian\_Record(cnic,update#,phone,email)

values('3310234654323',1, '03055435432',NULL);

insert into Guardian\_Record(cnic,update#,phone,email) values('3310234654326',1,NULL,'m.m@gmail.com');

insert into Guardian\_Record(cnic,update#,phone,email)

values('1765432887664',1, '03055000876','a.a@gmail.com');

insert into Guardian\_Record(cnic,update#,phone,email) values('4357890876540',1,NULL,'f.f@gmail.com');

insert into Guardian\_Record(cnic,update#,phone,email)

values('3310234654325',1,NULL,'NULL');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0001,'Ali','M','0001\_0',to\_date( '1/1/2017' ,'DD/MM/YYYY' ), 'A’, '4456786543221' , '3310244444442', '3310234654325');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0002,'Atif','M',' 0002\_0',to\_date(' 1/1/2017 ','DD/MM/YYYY'),'A', '4456786543221', '3310244444442', '3310234654325');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0003,'Ahmad','M',' 0003\_0',to\_date(' 1/1/2016 ','DD/MM/YYYY'),'B', '1765432887663', '4357890876541', '3310234654325');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0004,'Ahmad','M',' 0004\_0',to\_date(' 1/1/2015 ','DD/MM/YYYY'),'C', '3310234654326', '3456789098763', '4357890876540');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0005,'Arslan','M',' 0005\_0',to\_date(' 1/1/2014 ','DD/MM/YYYY'),'A', '3310234654326', '3456789098763', '4357890876540');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0006,'Asif','M',' 0006\_1',to\_date(' 1/1/2013 ','DD/MM/YYYY'),'C', '3310234654326', '3456789098763', '4357890876540');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0007,'Azmat','M',' 0007\_1',to\_date(' 1/2/2012 ','DD/MM/YYYY'),'B', '4456786543224', '3310244444445', '3310234654324');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0008,'Amna','F',' 0008\_1',to\_date(' 1/1/2011 ','DD/MM/YYYY'),'C', '4456786543224', '3310244444445', '3310234654324');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0009,'Aslam','M',' 0009\_1',to\_date(' 1/1/2010 ','DD/MM/YYYY'),'A', '4456786543224', '3310244444445', ' 3310234654324');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0010,'Bilal','M',' 0010\_1',to\_date('1/2/2009','DD/MM/YYYY'),'B', '4456786543224', '3310244444445', '3310234654324');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0011,'Bushra','F',' 0011\_1',to\_date(' 1/2/2008 ','DD/MM/YYYY'),'B', '1765432887666', '4357890876544', '1765432887664');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0012,'Dawood','M',' 0012\_1',to\_date(' 1/1/2007 ','DD/MM/YYYY'),'C', '1765432887666', '4357890876544', '1765432887664');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0013,'Ertugal','M','0013\_0',to\_date('1/3/2006','DD/MM/YYYY'),'A', '3310234654327', '3456789098766', '3310234654323');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0014,'Fiza','F',' 0014\_2',to\_date('1/4/2005','DD/MM/YYYY'),'A', '3310234654327', '3456789098766', '3310234654323');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0015,'Farhan','M',' 0015\_1',to\_date(' 1/5/2006 ','DD/MM/YYYY'),'C', '4456786543225', '3310244444446', '3310234654323');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0016,'Farrukh','M',' 0016\_2',to\_date(' 1/4/2007 ','DD/MM/YYYY'),'C', '4456786543225', '3310244444446', '3310234654323');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0017,'Fatima','F',' 0017\_0',to\_date(' 1/3/2006 ','DD/MM/YYYY'),'B', '1765432887667', '4357890876545', '1765432887663') ;

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0018,'Farha','F',' 0018\_0',to\_date(' 1/5/2005 ','DD/MM/YYYY'),'A', '1765432887667', '4357890876545', '1765432887663');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0019,'Humna','F',' 0019\_0',to\_date(' 1/7/2007 ','DD/MM/YYYY'),'B', '3310234654329', '3456789098767', '3310234654326');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0020,'Hania','F',' 0020\_0',to\_date(' 1/5/2008 ','DD/MM/YYYY'),'C', '3310234654329', '3456789098767', '3310234654326');

insert into student(StudentID,name,gender,PhotoID, dob,section,m\_cnic,f\_cnic,g\_cnic) values( 0021,'Haris','M',' 0021\_2',to\_date(' 1/2/2017 ','DD/MM/YYYY'),'A', '3310234654329', '3456789098767', '3310234654326');

update student set class=7 where (sysdate-dob)/365>=15;

update student set class=6 where (sysdate-dob)/365<15 AND (sysdate-dob)/365>=13;

update student set class=5 where (sysdate-dob)/365<13 AND (sysdate-dob)/365>=11;

update student set class=4 where (sysdate-dob)/365<11 AND (sysdate-dob)/365>=9;

update student set class=3 where (sysdate-dob)/365<9 AND (sysdate-dob)/365>=7;

update student set class=2 where (sysdate-dob)/365<7 AND (sysdate-dob)/365>=5;

update student set class=1 where (sysdate-dob)/365<5AND (sysdate-dob)/365>=3;

update student set section='B' where section='C' and class=2;

update student set section='A' where class=5;

update student set section='A' where class=3;

update student set section='A' where section='B' and class=6;

update student set section='B' where section='C' and class=6;

Alter table student

Add constraint FK4\_Student Foreign Key(section,class) references section(Letter\_S,ClassID);

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0001,1,' 0006\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0001,2,' 0001\_1');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0003,1,' 0003\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0009,1,' 0009\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0010,1,' 0010\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0011,1,' 0011\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0012,1,' 0012\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0013,1,' 0013\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0013,2,' 0013\_1');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0013,3,' 0013\_2');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0016,1,' 0016\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0016,2,' 0016\_1');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0021,1,' 0021\_0');

insert into Photo\_Record(StudentID,update#,Prev\_PhotoID) values(0021,2,' 0021\_1');

insert into sec\_history(StudentID,change#,prev\_section,reason) values(0008,1,'A','Disturbance');

insert into sec\_history(StudentID,change#,prev\_section,reason) values(0007,1,'A','Fighting');

insert into sec\_history(StudentID,change#,prev\_section,reason) values(0017,1,'B','Misbehavior');

insert into sec\_history(StudentID,change#,prev\_section,reason) values(0012,1,'C’,'Fighting');

insert into sec\_history(StudentID,change#,prev\_section,reason) values(0004,1,'A','Misbehavior');

insert into sec\_history(StudentID,change#,prev\_section,reason) values(0014,1,'B','Fighting');

insert into sec\_history(StudentID,change#,prev\_section,reason) values(0021,1,'C','Misbehavior');

insert into accompany(StudentID,visit#,cnic,name,relation,isPreg,Reason) values(0018,1, 8809012758066,' Nazia','Aunt','N','Mother got ill');

insert into accompany(StudentID,visit#,cnic,name,relation,isPreg,Reason) values(0010,1, 8768768768768,' Rashda','Aunt','N','Mother got ill');

insert into accompany(StudentID,visit#,cnic,name,relation,isPreg,Reason) values(0017,1, 8999999965656,' Kalsoom','Aunt','N','Mother got ill');

insert into course(CourseID,cname,isActive) values(10,' Family Management', 'N');

insert into course(CourseID,cname,isActive) values(20,' Psychology', 'N');

insert into course(CourseID,cname,isActive) values(30,' Maths', 'Y');

insert into course\_history(StudentID,courseID,year,grade) values(06, 20, 2018,' F');

insert into course\_history(StudentID,courseID,year,grade) values(07, 20, 2018,' C');

insert into course\_history(StudentID,courseID,year,grade) values(08, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(09, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(10, 20 ,2018,' B');

insert into course\_history(StudentID,courseID,year,grade) values(11, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(12, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(14, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(15, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(16, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(21, 20, 2018,' A');

insert into course\_history(StudentID,courseID,year,grade) values(17, 20, 2018,' C');

insert into course\_history(StudentID,courseID,year,grade) values(01, 20, 2018,' B');

insert into course\_history(StudentID,courseID,year,grade) values(02, 20, 2018,' B');

insert into course\_history(StudentID,courseID,year,grade) values(20, 10, 2019,' A');

insert into course\_reg(Voucher#,StudentID,courseID) values(30001, 0001, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30002, 0002, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30003, 0003, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30004, 0004, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30005, 0005, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30006, 0006, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30007, 0007, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30008, 0008, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30009, 0009, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(30010, 0010, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(30011, 0011, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(30012, 0012, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(30013, 0013, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(30014, 0014, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(30015, 0015, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(30016, 0016, 30);

insert into course\_reg(Voucher#,StudentID,courseID) values(30017, 0017, 30);

insert into course\_reg(Voucher#,StudentID,courseID) values(30018, 0018, 30);

insert into course\_reg(Voucher#,StudentID,courseID) values(30019, 0019, 30);

insert into course\_reg(Voucher#,StudentID,courseID) values(30020, 0020, 30);

insert into course\_reg(Voucher#,StudentID,courseID) values(30021, 0021, 30);

insert into course\_reg(Voucher#,StudentID,courseID) values(20006, 0006, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(20007, 0007, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(20008, 0008, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(20009, 0009, 20);

insert into course\_reg(Voucher#,StudentID,courseID) values(20010, 0010, 30);

insert into course\_reg(Voucher#,StudentID,courseID) values(20011, 0011, 10);

insert into course\_reg(Voucher#,StudentID,courseID) values(20012, 0012, 10);

update student set reg\_date=to\_date('1/1/2020','DD/MM/YYYY') where StudentID=1;

update student set reg\_date=to\_date('1/2/2020','DD/MM/YYYY') where StudentID=2;

update student set reg\_date=to\_date('1/1/2020','DD/MM/YYYY') where StudentID= 3;

update student set reg\_date=to\_date('1/1/2020','DD/MM/YYYY') where StudentID= 4;

update student set reg\_date=to\_date('1/3/2020','DD/MM/YYYY') where StudentID= 5;

update student set reg\_date=to\_date('1/3/2018','DD/MM/YYYY') where StudentID= 6;

update student set reg\_date=to\_date('1/2/2018','DD/MM/YYYY') where StudentID= 7;

update student set reg\_date=to\_date('1/2/2018','DD/MM/YYYY') where StudentID= 8;

update student set reg\_date=to\_date('1/1/2018','DD/MM/YYYY') where StudentID= 9;

update student set reg\_date=to\_date('1/1/2018','DD/MM/YYYY') where StudentID= 10;

update student set reg\_date=to\_date('1/3/2018','DD/MM/YYYY') where StudentID= 11;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 12;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 13;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 14;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 15;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 16;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 17;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 18;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 19;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 20;

update student set reg\_date=to\_date('1/4/2018','DD/MM/YYYY') where StudentID= 21;

update sec\_history set ch\_date=to\_date('1/5/2020','DD/MM/YYYY') where StudentID=8;

update sec\_history set ch\_date=to\_date('1/5/2020','DD/MM/YYYY') where StudentID=7;

update sec\_history set ch\_date=to\_date('10/4/2020','DD/MM/YYYY') where StudentID=14;

update sec\_history set ch\_date=to\_date('12/7/2020','DD/MM/YYYY') where StudentID=17;

update sec\_history set ch\_date=to\_date('11/5/2020','DD/MM/YYYY') where StudentID=12;

update sec\_history set ch\_date=to\_date('11/5/2020','DD/MM/YYYY') where StudentID=04;

## **SQL Queries**

1-

Select StudentID,name, gender, dob, photoID

from student;

2-

Select M.name Mother, F.name Father

From Parent F, Parent M

Where m.relation= 'MOTHER' and f.partner=m.cnic;

3-

select g.relation, g.name Guardian,s.name Studen

from guardian g,student s

where s.g\_cnic=g.cnic

order by g.relation;

4-

Select M.name Mother, F.name Father,C.StudentID, C.name

From Parent F, Parent M, Student C

Where m.relation=’MOTHER’ AND m.partner=f.cnic AND C.M\_CNIC=m.cnic;

5-

select s1.section,count(DISTINCT(s1.M\_Cnic)) Sibling\_Count from student s1, student s2

where s1.M\_Cnic=s2.M\_cnic AND s1.section=s2.section AND s1.StudentID<>s2.StudentID

group by s1.section;

6-

7-

//Select class,count(StudentID) from student

//Where reg\_date between(date\_1 and date2);

8-

9-

Select m.name,f.name,s.StudentID,s.name from student s, parent f,parent m

Where (reg\_date-dob)/365 <=4 AND s.M\_Cnic=M.cnic AND s.F\_cnic=f.cnic;

10-

//Select \* from sec\_history where StudentID=;

## **Queries for Forms and Report**

**Query registration.php**

* insert into parent values ('".$mCNIC."','".$mName."','".$mContact."','MOTHER','','".$mStatus."','".$mEmail."','".$mAddress."')";
* insert into parent values ('".$fCNIC."','".$fName."','".$fContact."','FATHER','".$mCNIC."','".$fStatus."','".$fEmail."','".$fAddress."')";

* insert into guardian values ('".$gCNIC."','".$gName."','".$gGender."','".$gContact."','".$gRelation."','".$gEmail."')";
* insert into student values ('".$sID."','".$sName."','".$sGender."','0000\_x',to\_date('".$sDOB."','DD/MM/YYYY'),'".$sClass."','".$sSec."','".$mCNIC."','".$fCNIC."','".$gCNIC."',sysdate)";
* insert into course\_reg values ('".$vNo."','".$sID."','".$cID."')";

**Query form1.php (Query 11)**

* select studentid,name,gender,dob from student where (class=1) and (section='A')";
* select studentid,name,gender,dob from student where (class=1) and (section='B')";
* select studentid,name,gender,dob from student where (class=2) and (section='A')";
* select studentid,name,gender,dob from student where (class=2) and (section='B')";
* select studentid,name,gender,dob from student where (class=3) and (section='A')";
* select studentid,name,gender,dob from student where (class=4) and (section='A')";
* select studentid,name,gender,dob from student where (class=4) and (section='B')";
* select studentid,name,gender,dob from student where (class=4) and (section='C')";
* select studentid,name,gender,dob from student where (class=5) and (section='A')";
* select studentid,name,gender,dob from student where (class=6) and (section='A')";
* select studentid,name,gender,dob from student where (class=6) and (section='B')";
* select studentid,name,gender,dob from student where (class=7) and (section='A')";
* select studentid,name,gender,dob from student where (class=7) and (section='B')";
* select \* from student where (STUDENTID= '".$studentid."')";

**Query update.php (Query 11)**

* update student set name='".$\_GET['name']."',dob='".$\_GET['dob']."',gender='".$\_GET['gender']."',class='".$\_GET['class']."',section='".$\_GET['section']."' where studentid=".$\_GET['studentid'];
* select \* from student where studentid = ".$studentid."";

**Query delete.php (Query 11)**

* DELETE FROM sec\_history WHERE studentid ='".$\_GET['studentid']."'";
* DELETE FROM accompany WHERE studentid ='".$\_GET['studentid']."'";
* DELETE FROM course\_history WHERE studentid ='".$\_GET['studentid']."'";
* DELETE FROM photo\_record WHERE studentid ='".$\_GET['studentid']."'";
* DELETE FROM course\_reg WHERE studentid ='".$\_GET['studentid']."'";
* DELETE FROM student WHERE studentid ='".$\_GET['studentid']."'";

**Query form2.php (Query 12)**

* select class,section,COUNT(STUDENTID),gender from student where class=".$classid." GROUP BY SECTION,GENDER,class";

**Query form4.php (Query 14)**

* select s.name SNAME,s.studentid SID,s.gender SGENDER,s.dob SDOB,f.address ADDRESS,f.name FNAME,f.phone FPHONE,m.name MNAME,m.phone MPHONE,g.name GNAME from student s,parent m,parent f,guardian g where (s.studentid=".$jobnum." and s.f\_cnic=f.cnic and s.m\_cnic=m.cnic and s.g\_cnic=g.cnic)";
* select s.name SIBLINGS from student s,student s1 where s1.studentid=".$jobnum." and s.f\_cnic=s1.f\_cnic and s.studentid!=s1.studentid";

**Query form5.php (Query 15)**

* select s.name SNAME,s.studentid SID,s.gender SGENDER,s.dob SDOB,s.class CLASS,f.address

ADDRESS,f.name FNAME,f.phone FPHONE,m.name MNAME,m.phone MPHONE,g.name GNAME from student s,parent m,parent f,guardian g where

((s.f\_cnic=".$jobnum." or s.m\_cnic=".$jobnum.")and s.f\_cnic=f.cnic and s.m\_cnic=m.cnic and s.g\_cnic=g.cnic)";