

**Computer Science Department**  
**University of Computer & Emerging Sciences (FAST-NU)**

**FINAL PROJECT**

<b>COURSE TITLE</b>	<u>DATABASE SYSTEMS</u>	<b>COURSE CODE</b>	<u>CS2009</u>
<b>INSTRUCTOR</b>	Usman Kaiser	<b>TYPE</b>	<input type="checkbox"/> <input checked="" type="checkbox"/> (Indiv.) (Group)
<b>PROJECT</b>	Humaray Bachay		
<b>HAND OUT DATE</b>	24-Nov-2021	<b>DUE DATE</b>	20-Dec-2021 (07:00 AM)



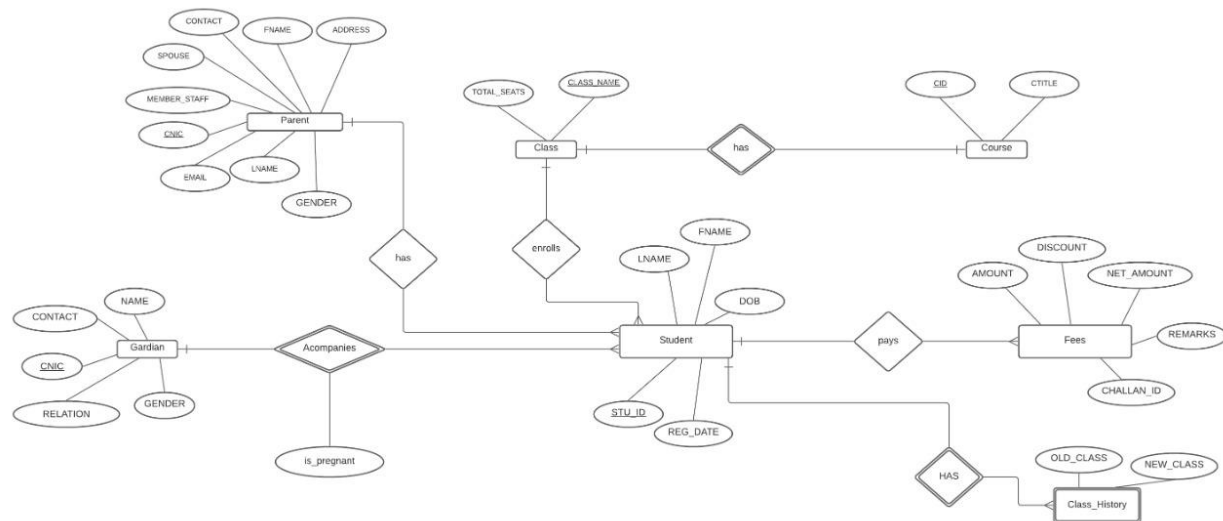
**GROUP MEMBERS**

Fatima Asim (19I-0438)  
Aneeza Sajjad Mazari (19I-2153)  
Adeeba Khan (19I-0626)

**DATABASE LAB SECTION: DB (A)**

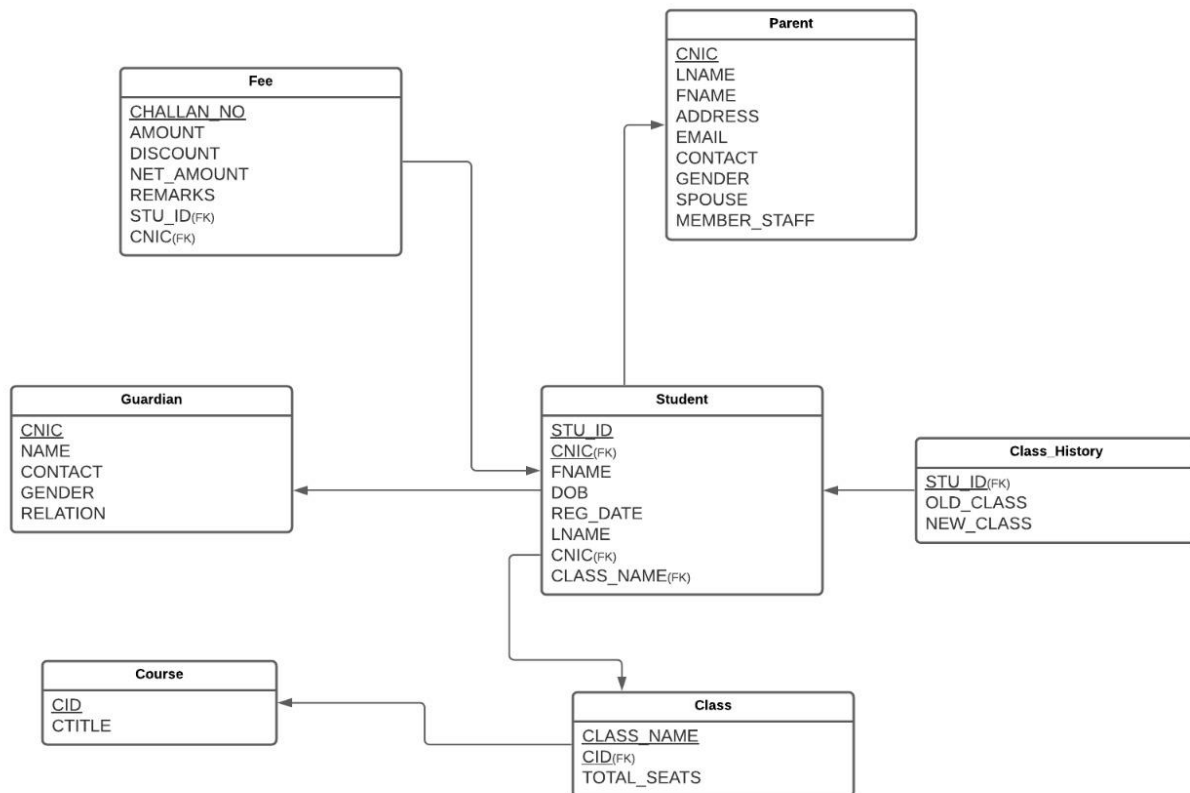
## Deliverable 1

### ER and/or EER diagram



## Deliverable 2

### Relational Schemas/ Mapping



## Deliverable 3

### Tables' description

#### *Class:*

Columns Name	Description	Type/Constraints	Data Type	Details
Class_Name	Class name	NULL	VARCHAR(3)	Primary Key
Total_Seats	Total number of seats in the class	NULL	INT(2,10)	Identify total seats in class
CID	Course identifier	FK	VARCHAR(5)	Course being taught in specific class

#### *Class\_History:*

Columns Name	Description	Type/Constraints	Data Type	Details
STU_ID	Student identifier	COMPOSITE	VARCHAR(8)	Ref. Stu_ID.Student
SERIAL_NO	Serial number of the record	COMPOSITE	INT(11,0)	Because dependent table
OLD_CLASS	Previous Class		VARCHAR(3)	Specify old class
NEW_CLASS	Shifted Class		VARCHAR(3)	Specify new class

#### *Course:*

Columns Name	Description	Type/Constraints	Data Type	Details
CID	Course Identifier	PK	VARCHAR(5)	Primary Key
CTITLE	Course Title	NULL	VARCHAR(50)	Course Name

#### *Guardian:*

Columns Name	Description	Type	Data Type	Details
CNIC	Identifier	PK, U	BIGINT(13,0)	Primary Key
NAME	Name of the person	NULL	VARCHAR(50)	To store Name
CONTACT	Contact of the person	NULL	BIGINT(11,0)	To store number
GENDER	Gender of the person	NULL	CHAR(1)	Gender info
RELATION	Relation with the student	NULL	VARCHAR(15)	Relation

**Parent:**

Columns Name	Description	Type/Constraints	Data Type	Details
CNIC	Identifier	PK	BIGINT(13,0)	Primary Key
FNAME	First name of the parent	NULL	VARCHAR(20)	To store first Name
LNAME	Last name of the parent	NULL	VARCHAR(50)	To store last Name
CONTACT	Contact of the parent	NULL	BIGINT(11)	Store Number
GENDER	Gender of the parent	NULL	CHAR(1)	Gender info
EMAIL	Email address of the parent	NULL	VARCHAR(50)	To store Email
SPOUSE	Spouse Identifier	FK	BIGINT(13,0)	Ref.PARENT.CNIC
MEMBER_STAFF	Boolean whether the parent is a member of staff or not	NULL	INT(1,0)	If parent works in school or not

**Student:**

Columns Name	Description	Type/Constraints	Data Type	Details
STU_ID	Student Identifier	PK	VARCHAR(8)	Primary Key
FNAME	First name of the student	NULL	VARCHAR(20)	To store first name
LNAME	Last name of the student	NULL	VARCHAR(20)	To store last name
DOB	Date of Birth of the student	NULL	DATE	To store date of birth
GENDER	Gender of the student	NULL	CHAR(1)	Gender Info
FATHER_CNIC	Identifier of the father	FK	BIGINT(13,0)	Ref.PARENT.CNIC
GUARDIAN_CNIC	Identifier of the guardian	FK	BIGINT (13,0)	Ref.GUARDIAN.CNIC
REG_DATE	Registration date	NULL	DATE	To store registration date
CLASSNAME	Current Class name of the Student along with the section	FK	VARCHAR(3)	Ref.CLASS.CLASS_NAME
STU_IMAGE	Image identifier	NULL	VARCHAR(100)	To store image

*Fee:*

Columns Name	Description	Type/Constraints	Data Type	Details
CHALLAN_NO	Challan Identifier	PK	BIGINT(10,0)	Primary Key
AMOUNT	Amount of the fees	NULL	INT (5,0)	Fee to be paid
DISCOUNT	Discount given		INT (5,0)	Discount
NET_AMOUNT	Total amount to be paid	NULL	INT (5,0)	Total fee after discount
REMARKS	Remarks of the fee		VARCHAR(200)	Remarks if any
STU_ID	Student Identifier	FK	VARCHAR(8)	Ref.STUDENT.STU_ID

## Deliverable 4

### SQL statements

#### - Creating Tables and Relations

```
/* ----- Table Creation ----- */
```

```
// Table 1
```

```
CREATE TABLE PARENT(
    CNIC BIGINT(13),
    FNAME VARCHAR(20) NOT NULL,
    LNAME VARCHAR(20),
    ADDRESS VARCHAR(50),
    CONTACT BIGINT(11) NOT NULL,
    GENDER CHAR(1),
    EMAIL VARCHAR(50) UNIQUE,
    SPOUSE BIGINT(13),
    MEMBER_STAFF INT (1)
);
```

```
// Table 2
```

```
CREATE TABLE GUARDIAN(
```

```
CNIC BIGINT(13),  
    NAME VARCHAR(50) NOT NULL,  
    CONTACT BIGINT(11) NOT NULL,  
    GENDER CHAR(1),  
    RELATION VARCHAR(15) NOT NULL  
);
```

// Table 3

```
CREATE TABLE Course (  
    CID VARCHAR(5),  
    CTITLE VARCHAR(50) NOT NULL  
);
```

// Table 4

```
CREATE TABLE STUDENT (  
    STU_ID VARCHAR(8),  
    FNAME VARCHAR(20) NOT NULL,  
    LNAME VARCHAR(20),  
    DOB DATE,  
    GENDER CHAR(1),  
    FATHER_CNIC BIGINT(13),  
    GUARDIAN_CNIC BIGINT(13),  
    REG_DATE DATE,  
    CLASSNAME VARCHAR(3),  
    STU_IMAGE VARCHAR(10)  
);
```

// Table 5

```
CREATE TABLE ACCOMPANIES(  

```

```
        STU_ID VARCHAR(8),  
        GUARDIAN_CNIC BIGINT(13),  
        IS_PREGNANT INT(1)  
    );
```

// Table 6

```
CREATE TABLE CLASS(  
    CLASS_NAME VARCHAR(3),  
    TOTAL_SEATS INT(2),  
    CID VARCHAR(5)  
);
```

// Table 7

```
CREATE TABLE CLASS_HISTORY(  
    SERIAL_NO INT(11),  
    STU_ID VARCHAR(8),  
    OLD_CLASS VARCHAR(3) NOT NULL,  
    NEW_CLASS VARCHAR(3) NOT NULL  
);
```

// Table 8

```
CREATE TABLE FEE(  
    CHALLAN_NO BIGINT (10),  
    AMOUNT INT(5),  
    DISCOUNT INT(5),  
    NET_AMOUNT INT(5),  
    REMARKS VARCHAR(50),  
    STU_ID VARCHAR(8)  
);
```

/\* ----- Table Alter: Setting Constraints ----- \*/

ALTER TABLE PARENT

ADD CONSTRAINT pk\_parent\_cnic

PRIMARY KEY (CNIC);

ALTER TABLE PARENT

ADD CONSTRAINT ref\_key\_spouse

FOREIGN KEY (SPOUSE)

REFERENCES PARENT(CNIC);

ALTER TABLE GUARDIAN

ADD CONSTRAINT pk\_guardian\_cnic

PRIMARY KEY (CNIC);

ALTER TABLE CLASS

ADD CONSTRAINT pk\_class\_name

PRIMARY KEY(CLASS\_NAME);

ALTER TABLE STUDENT

ADD CONSTRAINT pk\_stu\_id

PRIMARY KEY (STU\_ID);

ALTER TABLE STUDENT

ADD CONSTRAINT fk\_father\_id

FOREIGN KEY (FATHER\_CNIC)

REFERENCES PARENT(CNIC);

ALTER TABLE STUDENT

ADD CONSTRAINT fk\_guardian\_id



FOREIGN KEY (GUARDIAN\_CNIC)

REFERENCES GUARDIAN(CNIC);

ALTER TABLE STUDENT

ADD CONSTRAINT fk\_class\_name

FOREIGN KEY (CLASSNAME)

REFERENCES CLASS(CLASS\_NAME);

ALTER TABLE Course

ADD CONSTRAINT pk\_course\_id

PRIMARY KEY (CID);

ALTER TABLE CLASS

ADD CONSTRAINT fk\_course\_id

FOREIGN KEY(CID)

REFERENCES COURSE(CID);

ALTER TABLE CLASS\_HISTORY

ADD CONSTRAINT pk\_stu\_id\_sr\_no

PRIMARY KEY(STU\_ID,SERIAL\_NO);

ALTER TABLE FEE

ADD CONSTRAINT pk\_challan\_no

PRIMARY KEY(CHALLAN\_NO);

ALTER TABLE FEE

ADD CONSTRAINT fk\_student\_id

FOREIGN KEY(STU\_ID)

REFERENCES STUDENT(STU\_ID);

```
ALTER TABLE ACCOMPANIES
```

```
ADD CONSTRAINT pk_stu_id_g_cnic
```

```
PRIMARY KEY(STU_ID, GUARDIAN_CNIC);
```

### - Populating Tables (INSERT STATEMENTS)

```
/* ----- Table Insert ----- */
```

```
// Table: Course
```

```
INSERT INTO COURSE (CID, CTITLE) VALUES ('CS203', 'Database');
```

```
INSERT INTO COURSE (CID, CTITLE) VALUES ('CS204', 'English');
```

```
INSERT INTO COURSE (CID, CTITLE) VALUES ('CS205', 'History');
```

```
INSERT INTO COURSE (CID, CTITLE) VALUES ('CS208', 'Linear Algebra');
```

```
// Table: Class
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('1AG',30,'CS203');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('1BM',40,'CS204');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('2AG',33,'CS205');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('2BM',23,'CS208');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('3AG',10,'CS203');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('3BM',40,'CS204');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('4AG',33,'CS205');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('4BM',54,'CS208');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('1BG',20,'CS203');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('2BG',20,'CS204');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('3BG',20,'CS205');
```

```
Insert into CLASS (CLASS_NAME,TOTAL_SEATS,CID) values ('4BG',20,'CS208');
```

```
// Table: Class History
```

Insert into CLASS\_HISTORY (SERIAL\_NO,STU\_ID,OLD\_CLASS,NEW\_CLASS) values (1,'19I-0500','3BM','4BM');

Insert into CLASS\_HISTORY (SERIAL\_NO,STU\_ID,OLD\_CLASS,NEW\_CLASS) values (2,'19I-0514','3BM','3BM');

Insert into CLASS\_HISTORY (SERIAL\_NO,STU\_ID,OLD\_CLASS,NEW\_CLASS) values (3,'19I-0505','1AG','2AG');

Insert into CLASS\_HISTORY (SERIAL\_NO,STU\_ID,OLD\_CLASS,NEW\_CLASS) values (4,'19I-0521','1AG','2AG');

Insert into CLASS\_HISTORY (SERIAL\_NO,STU\_ID,OLD\_CLASS,NEW\_CLASS) values (5,'19I-0527','3AG','4AG');

Insert into CLASS\_HISTORY (SERIAL\_NO,STU\_ID,OLD\_CLASS,NEW\_CLASS) values (6,'19I-0505','2AG','3AG');

// Table: Accompanies

Insert into ACCOMPANIES (STU\_ID,GUARDIAN\_CNIC,IS\_PREGNANT) values ('19I-0507',4429000000000,1);

Insert into ACCOMPANIES (STU\_ID,GUARDIAN\_CNIC,IS\_PREGNANT) values ('19I-0513',6880000000000,1);

Insert into ACCOMPANIES (STU\_ID,GUARDIAN\_CNIC,IS\_PREGNANT) values ('19I-0514',5980000000000,1);

// Table: Fee

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (1386402347,3000,0,3000,'Paid','19I-0515');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (2843984751,3000,0,3000,'Paid','19I-0517');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (5093754949,2000,0,2000,'Paid','19I-0518');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (1092836478,0,0,0,'Paid','19I-0519');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (3894560867,4000,0,4000,'Paid','19I-0520');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (8495609483,3000,0,3000,'Paid','19I-0521');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (2547830745,3000,0,3000,'Paid','19I-0522');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (7834018764,2000,0,2000,'Paid','19I-0523');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (9573275648,2500,0,2500,'Paid','19I-0524');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (5476849375,3000,0,3000,'Paid','19I-0525');

Insert into FEE (CHALLAN\_NO,AMOUNT,DISCOUNT,NET\_AMOUNT,REMARKS,STU\_ID) values (4567257912,4000,0,4000,'Paid','19I-0529');

// Table: Guardian

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (9770000000000, 'Benji', 37700000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (8300000000000, 'Chalmers', 27300000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (7510000000000, 'Ludovico', 95300000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (2363000000000, 'Phip', 36600000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (3628000000000, 'Bentlee', 36200000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (4429000000000, 'Aubert', 77500000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (4578600000000, 'Andonis', 73600000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (4284000000000, 'Antoine', 26700000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (5990000000000, 'Merill', 60400000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (3202000000000, 'Clyve', 14400000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (8600000000000, 'Quentin', 31500000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (6880000000000, 'Dino', 95900000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (5980000000000, 'Immanuel', 688000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (9180000000000, 'Van', 667000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (4740000000000, 'Lars', 424000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (7360000000000, 'Dimitry', 330000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (7320000000000, 'Gunner', 558000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (8450000000000, 'Sheffy', 442000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (9620000000000, 'Rollo', 523910000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (4800000000000, 'Tibold', 362000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (9610000000000, 'Grace', 168000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (2930000000000, 'Joe', 397000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (6770000000000, 'Marwin', 882000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (4440000000000, 'Brok', 656000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (5320000000000, 'Hazel', 702000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (8160000000000, 'Giffy', 780000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (3140000000000, 'Morey', 139000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (6850000000000, 'Terry', 855000000000, 'F', 'Aunt');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (2240000000000, 'Noach', 708000000000, 'M', 'Uncle');

INSERT INTO GUARDIAN (CNIC, NAME, CONTACT, GENDER, RELATION) VALUES (3570000000000,  
'Phillipe', 31860000000, 'M', 'Uncle');

// Table: Parent

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (7923360000000,'Britt','Kienan','3 Coleman  
Hill',48135797579,'F','bbuttel0@geocities.jp',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (4328120000000,'Carson','Jase','906 Mendota  
Lane',45833161473,'F','cmiddell2@mlb.com',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (5380500000000,'Stevy','Tye','88536 Mosinee  
Place',62421840538,'F','stezure3@aboutads.info',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (1099270000000,'Kane','Barthel','0 Esker  
Street',3590976408,'F','kbricklebanka@lycos.com',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (4886610000000,'Giorgi','Osmund','78534 Derek  
Parkway',74721892038,'F','gpetrenb@seesaa.net',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (2530740000000,'Kingsly','Tristan','6 Schiller  
Pass',90533988578,'F','kstegerc@nature.com',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (3932250000000,'Fidelio','Clerc','925 Havey  
Terrace',13436556045,'F','fsimmankd@goo.ne.jp',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (4488412759781,'Karel','Zachery','54766 Oakridge  
Place',63147363348,'F','kshimmansg@de.vu',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (3076160000000,'Pebrook','Freemon','04 Waywood  
Parkway',10215007221,'F','pmcteari@mysql.com',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (3620580000000,'Maxie','Dylan','8068 Almo  
Court',44719964219,'F','mpedrolj@examiner.com',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (4761900000000,'Jeth','Allin','42091 Sutteridge Avenue',49549184173,'F','jfetersk@shop-  
pro.jp',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (2024270000000,'Zollie','Courtney','89886 Center  
Terrace','38607437903','F','zwarbysn@apache.org',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (6860620000000,'Gino','Archer','815 Carioca  
Plaza','93548802101','F','gbartolomieuo@bloglovin.com',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (9489020000000,'Alberik','Gordy','37 Florence  
Street','73116746877','F','afrankcombep@usda.gov',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (9337120000000,'Cloe','John','88309 Loomis  
Avenue','73112146877','F','itscloee@usda.gov',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (9159010000000,'Zoe','Berlin','11352 Gulseth  
Point','73116726017','F','zoebarnes@usda.gov',null,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (1365085000000,'Derry','Maurie','3 Coleman  
Hill','92528224880','M','dwoodrow1@blogspot.com',7923360000000,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (3104510000000,'Sanders','Clementius','906 Mendota  
Lane','21972676266','M','sgergher4@hugedomains.com',4328120000000,1);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (3609480000000,'Burton','Toddie','88536 Mosinee  
Place','67190887512','M','bpales5@dedecms.com',5380500000000,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (2397938000000,'Marcello','Giraldo','0 Esker  
Street','53587090057','M','mbison6@webnode.com',1099270000000,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (2782230000000,'Shaun','Fredric','78534 Derek  
Parkway','77428173972','M','skinloch7@facebook.com',4886610000000,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (4702049000000,'Ulises','Theodore','6 Schiller  
Pass','58531803606','M','ufillan8@bloglines.com',2530740000000,null);

Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER\_STAFF)  
values (5884490000000,'Pail','Murray','925 Havey  
Terrace','11132476970','M','post9@indiatimes.com',3932250000000,null);

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (6322970000000,'Antonius','Jay','54766 Oakridge
Place',4005807396,'M','aworsnupe@mit.edu',4488412759781,null);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (7037140000000,'Otes','Brit','04 Waywood
Parkway',90739480287,'M','oblevinf@imdb.com',3076160000000,null);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (4752490000000,'Willi','Gilberto','8068 Almo
Court',11059752136,'M','wtrippeth@weather.com',3620580000000,1);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (2173060000000,'Ogdan','Gav','89886 Center
Terrace',80209670023,'M','oskasel@examiner.com',2024270000000,null);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (4358540000000,'Bram','Cosimo','815 Carioca
Plaza',11866359863,'M','bautym@bing.com',6860620000000,null);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (5233600000000,'Sherman','Hardy','37 Florence
Street',88489520728,'M','sdeleaq@phoca.cz',9489020000000,1);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (4185368000000,'Chic','Maxim','42091 Sutteridge
Avenue',13301950420,'M','cgooderer@drupal.org',4761900000000,null);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (2853910000000,'Levi','Winnie','88309 Loomis
Avenue',24053885401,'M','lfallenss@foxnews.com',9337120000000,null);
```

```
Insert into PARENT (CNIC,FNAME,LNAME,ADDRESS,CONTACT,GENDER,EMAIL,SPOUSE,MEMBER_STAFF)
values (4530940000000,'Paddie','Teddie','11352 Gulseth
Point',20861607466,'M','proxburgh@sphinn.com',9159010000000,null);
```

```
// Table: Student
```

```
Insert into STUDENT
(STU_ID,FNAME,LNAME,DOB,GENDER,FATHER_CNIC,GUARDIAN_CNIC,REG_DATE,CLASSNAME,STU_I
MA
GE) values ('19I-0500','Geoffrey','Derry',TIMESTAMP('2010-06-
25'),'M',1365085000000,9770000000000,TIMESTAMP('2020-02-03'),'4BM','abc.jpg');
```

```
Insert into STUDENT
(STU_ID,FNAME,LNAME,DOB,GENDER,FATHER_CNIC,GUARDIAN_CNIC,REG_DATE,CLASSNAME,STU_I
MA
GE) values ('19I-0502','Ara','Derry',TIMESTAMP('2012-05-
11'),'F',1365085000000,8300000000000,TIMESTAMP('2020-02-16'),'3AG','abc.jpg');
```



Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0503','Celene','Sollom',TIMESTAMP('2010-10-28'),'F',null,7510000000000,TIMESTAMP('2020-02-01'),'4AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0505','Blythe','Burton',TIMESTAMP('2011-12-15'),'F',3609480000000,2363000000000,TIMESTAMP('2020-05-02'),'3AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0506','Alard','Sanders',TIMESTAMP('2015-07-03'),'M',3104510000000,3628000000000,TIMESTAMP('2020-02-20'),'1BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0507','Ashton','Burton',TIMESTAMP('2014-12-12'),'M',3609480000000,4429000000000,TIMESTAMP('2020-03-15'),'2BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0508','Alva','Marcello',TIMESTAMP('2011-09-20'),'M',2397938000000,4578600000000,TIMESTAMP('2020-02-03'),'3BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0509','Danit','Shaun',TIMESTAMP('2012-05-15'),'F',2782230000000,4284000000000,TIMESTAMP('2020-01-30'),'3AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0510','Kessia','Ulises',TIMESTAMP('2011-01-11'),'F',4702049000000,5990000000000,TIMESTAMP('2020-03-26'),'4AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0511','Elisa','Paili',TIMESTAMP('2016-02-03'),'F',5884490000000,3202000000000,TIMESTAMP('2020-04-23'),'1AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0512','Ellsworth','Ambrogio',TIMESTAMP('2010-06-03'),'M',null,8600000000000,TIMESTAMP('2020-01-23'),'4BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE

GE) values ('19I-0513','Gregorius','Shaun',TIMESTAMP('2012-03-04'),'M',2782230000000,6880000000000,TIMESTAMP('2020-01-23'),'3BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0514','Derril','Ulises',TIMESTAMP('2012-02-28'),'M',4702049000000,5980000000000,TIMESTAMP('2020-01-23'),'3BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0515','Karin','Pail',TIMESTAMP('2011-04-28'),'F',5884490000000,9180000000000,TIMESTAMP('2020-02-03'),'4AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0517','Bordie','Otes',TIMESTAMP('2012-01-14'),'M',7037140000000,7360000000000,TIMESTAMP('2020-02-03'),'3BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0518','Marlyn','Antonius',TIMESTAMP('2012-02-06'),'F',6322970000000,7320000000000,TIMESTAMP('2020-01-23'),'3AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0519','Andria','Willi',TIMESTAMP('2011-05-15'),'F',4752490000000,8450000000000,TIMESTAMP('2020-04-03'),'4AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0520','Lucho','Otes',TIMESTAMP('2011-01-07'),'M',7037140000000,9620000000000,TIMESTAMP('2020-03-22'),'4BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0521','Kathryne','Willi',TIMESTAMP('2014-08-05'),'F',4752490000000,4800000000000,TIMESTAMP('2020-03-21'),'2AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0522','Roscoe','Chic',TIMESTAMP('2011-06-25'),'M',4185368000000,9610000000000,TIMESTAMP('2020-03-21'),'3BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0523','Kip','Ricks',TIMESTAMP('2015-03-20'),'M',null,2930000000000,TIMESTAMP('2020-03-20'),'2BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0524','Blake','Bram',TIMESTAMP('2011-10-14'),'F',4358540000000,6770000000000,TIMESTAMP('2020-01-21'),'3AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0525','Wendall','Ogdan',TIMESTAMP('2010-12-04'),'M',2173060000000,4440000000000,TIMESTAMP('2020-02-22'),'4BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0527','Edwina','Geard',TIMESTAMP('2011-06-29'),'F',null,8160000000000,TIMESTAMP('2019-03-22'),'4AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0528','Sidonia','Keningley',TIMESTAMP('2016-03-24'),'F',5233600000000,3140000000000,TIMESTAMP('2019-04-13'),'1AG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0529','Martainn','Chic',TIMESTAMP('2012-04-15'),'M',4185368000000,6850000000000,TIMESTAMP('2019-02-14'),'3BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0530','Fonz','Bounty',TIMESTAMP('2011-06-16'),'M',2853910000000,2240000000000,TIMESTAMP('2019-12-09'),'4BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0534','Elita','Chic',TIMESTAMP('2014-08-25'),'F',4185368000000,9610000000000,TIMESTAMP('2020-03-21'),'2BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0532','Mark','Paddie',TIMESTAMP('2015-03-04'),'M',4530940000000,3570000000000,TIMESTAMP('2019-10-30'),'2BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0533','John','Paddie',TIMESTAMP('2011-01-02'),'M',4530940000000,3570000000000,TIMESTAMP('2019-10-30'),'4BM','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE

GE) values ('19I-0535','Chris','Willi',TIMESTAMP('2012-08-20'),'F',4752490000000,4800000000000,TIMESTAMP('2020-03-21'),'3BG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0536','David','Sanders',TIMESTAMP('2014-03-12'),'M',3104510000000,3628000000000,TIMESTAMP('2020-03-21'),'2BG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0537','Brown','Levi',TIMESTAMP('2015-02-12'),'F',2853910000000,2240000000000,TIMESTAMP('2020-03-21'),'2BG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0538','Harry','Levi',TIMESTAMP('2014-03-13'),'M',2853910000000,2240000000000,TIMESTAMP('2020-03-21'),'2BG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0539','Curly','Marcello',TIMESTAMP('2017-02-02'),'F',2397938000000,4578600000000,TIMESTAMP('2020-03-21'),'1BG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0540','Ying','Shaun',TIMESTAMP('2016-03-02'),'M',2782230000000,6880000000000,TIMESTAMP('2020-03-21'),'1BG','abc.jpg');

Insert into STUDENT

(STU\_ID,FNAME,LNAME,DOB,GENDER,FATHER\_CNIC,GUARDIAN\_CNIC,REG\_DATE,CLASSNAME,STU\_IMAGE) values ('19I-0531','Gunar','Paddie',TIMESTAMP('2017-01-04'),'M',4530940000000,3570000000000,TIMESTAMP('2020-02-15'),'1BM','abc.jpg');

## - Data Sets (Database State)

**Table 1: Accompanies**

STU_ID	GUARDIAN_CNIC	IS_PREGNANT
19I-0507	4429000000000	1
19I-0513	6880000000000	1
19I-0514	5980000000000	1

**Table 2: Class**

CLASS_NAME	TOTAL_SEATS	CID
1AG	30	CS203
1BM	40	CS204
2AG	33	CS205
2BM	23	CS208
3AG	10	CS203
3BM	40	CS204
4AG	33	CS205
4BM	54	CS208
1BG	20	CS203
2BG	20	CS204
3BG	20	CS205
4BG	20	CS208

**Table 3: Class History**

SERIAL_NO	STU_ID	OLD_CLASS	NEW_CLASS
1	19I-0500	3BM	4BM
2	19I-0514	3BM	3BM
3	19I-0505	1AG	2AG
4	19I-0521	1AG	2AG
5	19I-0527	3AG	4AG
6	19I-0505	2AG	3AG

**Table 4: Course**

CID	CTITLE
CS203	Database
CS204	English
CS205	History
CS208	Linear Algebra

**Table 5: Fee**

CHALLAN_NO	AMOUNT	DISCOUNT	NET_AMOUNT	REMARKS	STU_ID
1386402347	3000	0	3000	Paid	19I-0515
2843984751	3000	0	3000	Paid	19I-0517
5093754949	2000	0	2000	Paid	19I-0518
1092836478	0	0	0	Paid	19I-0519
3894560867	4000	0	4000	Paid	19I-0520
8495609483	3000	0	3000	Paid	19I-0521
2547830745	3000	0	3000	Paid	19I-0522
7834018764	2000	0	2000	Paid	19I-0523
9573275648	2500	0	2500	Paid	19I-0524
5476849375	3000	0	3000	Paid	19I-0525
4567257912	4000	0	4000	Paid	19I-0529

**Table 6: Guardian**

CNIC	NAME	CONTACT	GENDER	RELATION
9770000000000	Benji	377000000000	M	Uncle
8300000000000	Chalmers	273000000000	F	Aunt
7510000000000	Ludovico	953000000000	F	Aunt
2363000000000	Phip	366000000000	M	Uncle
3628000000000	Bentlee	362000000000	M	Uncle
4429000000000	Aubert	775000000000	F	Aunt
4578600000000	Andonis	736000000000	F	Aunt
4284000000000	Antoine	267000000000	F	Aunt
5990000000000	Merill	604000000000	M	Uncle
3202000000000	Clyve	144000000000	F	Aunt
8600000000000	Quentin	315000000000	M	Uncle
6880000000000	Dino	959000000000	F	Aunt

Table 7: Parent

	CNIC	FNAME	LNAME	ADDRESS	CONTACT	GENDER	EMAIL	SPOUSE	MEMBER_STAFF
9159010000000	Zoe	Berlin	11352 Gulseth Point	73116726017	F		zoebarnes@usda.gov	NULL	NULL
1365085000000	Derry	Maurie	3 Coleman Hill	92528224880	M		dwoodrow1@blogspot.com	7923360000000	NULL
3104510000000	Sanders	Clementius	906 Mendota Lane	21972676266	M		sgergher4@hugedomains.com	4328120000000	1
3609480000000	Burton	Toddie	88536 Mosinee Place	67190887512	M		bpales5@dedecms.com	5380500000000	NULL
2397938000000	Marcello	Giraldo	0 Esker Street	53587090057	M		mbison6@webnode.com	1099270000000	NULL
2782230000000	Shaun	Fredric	78534 Derek Parkway	77428173972	M		skinloch7@facebook.com	4886610000000	NULL
4702049000000	Ulises	Theodore	6 Schiller Pass	58531803606	M		ufillan8@bloglines.com	2530740000000	NULL
5884490000000	Pail	Murray	925 Havey Terrace	11132476970	M		post9@indiatimes.com	3932250000000	NULL
6322970000000	Antonius	Jay	54766 Oakridge Place	4005807396	M		aworsnupe@mit.edu	4488412759781	NULL
7037140000000	Otes	Brit	04 Waywood Parkway	90739480287	M		oblevinf@imdb.com	3076160000000	NULL

Table 8: Student

STU_ID	FNAME	LNAME	DOB	GENDER	FATHER_CNIC	GUARDIAN_CNIC	REG_DATE	CLASSNAME	STU_IMAGE
19I-0500	Geoffrey	Derry	2010-06-25	M	1365085000000	9770000000000	2020-02-03	4BM	abc.jpg
19I-0502	Ara	Derry	2012-05-11	F	1365085000000	8300000000000	2020-02-16	3AG	abc.jpg
19I-0503	Celene	Sollom	2010-10-28	F	NULL	7510000000000	2020-02-01	4AG	abc.jpg
19I-0505	Blythe	Burton	2011-12-15	F	3609480000000	2363000000000	2020-05-02	3AG	abc.jpg
19I-0506	Alard	Sanders	2015-07-03	M	3104510000000	3628000000000	2020-02-20	1BM	abc.jpg
19I-0507	Ashton	Burton	2014-12-12	M	3609480000000	4429000000000	2020-03-15	2BM	abc.jpg
19I-0508	Alva	Marcello	2011-09-20	M	2397938000000	4578600000000	2020-02-03	3BM	abc.jpg
19I-0509	Danit	Shaun	2012-05-15	F	2782230000000	4284000000000	2020-01-30	3AG	abc.jpg
19I-0510	Kessia	Ulises	2011-01-11	F	4702049000000	5990000000000	2020-03-26	4AG	abc.jpg
19I-0511	Elisa	Paili	2016-02-03	F	5884490000000	3202000000000	2020-04-23	1AG	abc.jpg
19I-0512	Ellsworth	Ambrogio	2010-06-03	M	NULL	8600000000000	2020-01-23	4BM	abc.jpg
19I-0513	Gregorius	Shaun	2012-03-04	M	2782230000000	6880000000000	2020-01-23	3BM	abc.jpg
19I-0514	Derril	Ulises	2012-02-28	M	4702049000000	5980000000000	2020-01-23	3BM	abc.jpg
19I-0515	Karin	Pail	2011-04-28	F	5884490000000	9180000000000	2020-02-03	4AG	abc.jpg
19I-0517	Bordie	Otes	2012-01-14	M	7037140000000	7360000000000	2020-02-03	3BM	abc.jpg
19I-0518	Marlyn	Antonius	2012-02-06	F	6322970000000	7320000000000	2020-01-23	3AG	abc.jpg
19I-0519	Andria	Willi	2011-05-15	F	4752490000000	8450000000000	2020-04-03	4AG	abc.jpg

## Queries

### 1. Query 1

select stu\_id, fname, lname, DOB, Reg\_Date, Classname from student;

stu_id	fname	lname	DOB	Reg_Date	Classname
19I-0500	Geoffrey	Derry	2010-06-25	2020-02-03	4BM
19I-0502	Ara	Derry	2012-05-11	2020-02-16	3AG
19I-0503	Celene	Sollom	2010-10-28	2020-02-01	4AG
19I-0505	Blythe	Burton	2011-12-15	2020-05-02	3AG
19I-0506	Alard	Sanders	2015-07-03	2020-02-20	1BM
19I-0507	Ashton	Burton	2014-12-12	2020-03-15	2BM
19I-0508	Alva	Marcello	2011-09-20	2020-02-03	3BM
19I-0509	Danit	Shaun	2012-05-15	2020-01-30	3AG
19I-0510	Kessia	Ulises	2011-01-11	2020-03-26	4AG
19I-0511	Elisa	Paili	2016-02-03	2020-04-23	1AG
19I-0512	Ellsworth	Ambrogio	2010-06-03	2020-01-23	4BM
19I-0513	Gregorius	Shaun	2012-03-04	2020-01-23	3BM
19I-0514	Derril	Ulises	2012-02-28	2020-01-23	3BM
19I-0515	Karin	Pail	2011-04-28	2020-02-03	4AG
19I-0517	Bordie	Otes	2012-01-14	2020-02-03	3BM
19I-0518	Marlyn	Antonius	2012-02-06	2020-01-23	3AG
19I-0519	Andria	Willi	2011-05-15	2020-04-03	4AG
19I-0520	Lucho	Otes	2011-01-07	2020-03-22	4BM
19I-0521	Kathryne	Willi	2014-08-05	2020-03-21	2AG
19I-0522	Roscoe	Chic	2011-06-25	2020-03-21	3BM
19I-0523	Kip	Ricks	2015-03-20	2020-03-20	2BM



**2. Query 2**

select mother.fname as "Mother Name", father.fname as "Spouse" from parent mother, parent father where (mother.gender='F' AND father.spouse= mother.cnic);

Mother Name	Spouse
Britt	Derry
Carson	Sanders
Stevy	Burton
Kane	Marcello
Giorgi	Shaun
Kingsly	Ulises
Fidelio	Pail
Karel	Antonius
Pebrook	Otes
Maxie	Willi
Jeth	Chic
Zollie	Ogdan
Gino	Bram
Alberik	Sherman
Cloe	Levi
Zoe	Paddie

**3. Query 3**

select g.name as "Guardian\_Name", s.fname as "Student\_F\_Name", s.lname as "Student\_L\_Name", g.relation from student s, guardian g where s.guardian\_cnic = g.cnic;

"Guardian_Name"	"Student_F_Name"	"Student_L_Name"	relation
Benji	Geoffrey	Derry	Uncle
Chalmers	Ara	Derry	Aunt
Ludovico	Celene	Sollom	Aunt
Phip	Blythe	Burton	Uncle
Bentlee	Alard	Sanders	Uncle
Aubert	Ashton	Burton	Aunt
Andonis	Alva	Marcello	Aunt
Antoine	Danit	Shaun	Aunt
Merill	Kessia	Ulises	Uncle
Clyve	Elisa	Paili	Aunt
Quentin	Ellsworth	Ambrogio	Uncle
Dino	Gregorius	Shaun	Aunt
Immanuel	Derril	Ulises	Uncle

**4. Query 4**

select s.fname as "Student Name", mother.fname as "Mother Name", father.fname as "Father Name" from parent mother, parent father, student s where (mother.gender='F' AND father.spouse= mother.cnrc AND s.father\_cnrc = father.cnrc);

Student Name	Mother Name	Father Name
Geoffrey	Britt	Derry
Ara	Britt	Derry
Alard	Carson	Sanders
David	Carson	Sanders
Blythe	Stevy	Burton
Ashton	Stevy	Burton
Alva	Kane	Marcello
Curly	Kane	Marcello
Danit	Giorgi	Shaun
Gregorius	Giorgi	Shaun
Ying	Giorgi	Shaun
Kessia	Kingsly	Ulises
Derril	Kingsly	Ulises
Elisa	Fidelio	Pail
Karin	Fidelio	Pail
Marlyn	Karel	Antonius
Bordie	Pebrook	Otes
Lucho	Pebrook	Otes
Andria	Maxie	Willi
Kathryne	Maxie	Willi
Chris	Maxie	Willi
Roscoe	Jeth	Chic
Martainn	Jeth	Chic
Elita	Jeth	Chic
Wendall	Zollie	Ogdan

**5. Query 5**

select distinct s1.stu\_id, s1.fname,s1.lname,s1.classname from student s1,student s2 where s1.fname != s2.fname and s1.lname = s2.lname and s1.father\_cnic = s2.father\_cnic order by s1.lname;

stu_id	fname	lname	classname
19I-0507	Ashton	Burton	2BM
19I-0505	Blythe	Burton	3AG
19I-0529	Martainn	Chic	3BM
19I-0534	Elita	Chic	2BM
19I-0522	Roscoe	Chic	3BM
19I-0500	Geoffrey	Derry	4BM
19I-0502	Ara	Derry	3AG
19I-0537	Brown	Levi	2BG
19I-0538	Harry	Levi	2BG
19I-0539	Curly	Marcello	1BG
19I-0508	Alva	Marcello	3BM
19I-0520	Lucho	Otes	4BM
19I-0517	Bordie	Otes	3BM
19I-0532	Mark	Paddie	2BM
19I-0531	Gunar	Paddie	1BM
19I-0533	John	Paddie	4BM
19I-0506	Alard	Sanders	1BM
19I-0536	David	Sanders	2BG
19I-0513	Gregorius	Shaun	3BM
19I-0540	Ying	Shaun	1BG
19I-0509	Danit	Shaun	3AG

**6. Query 6**

```
SELECT s.fname,s.lname, h.old_class, s.classname as New, s.reg_date from student s,
class_history h where s.stu_id = h.stu_id and TIMESTAMP(s.reg_date,'YYYY-MON-DD') >=
TIMESTAMP('2019-02-14','YYYY-MON-DD') and TIMESTAMP(s.reg_date,'YYYY-MON-DD') <=
TIMESTAMP('2020-11-14','YYYY-MON-DD');
```

fname	lname	old_class	New	reg_date
Geoffrey	Derry	3BM	4BM	2020-02-03
Derril	Ulises	3BM	3BM	2020-01-23
Blythe	Burton	1AG	3AG	2020-05-02
Kathryne	Willi	1AG	2AG	2020-03-21
Edwina	Geard	3AG	4AG	2019-03-22
Blythe	Burton	2AG	3AG	2020-05-02

**7. Query 7**

```
SELECT fname, lname, classname, reg_date from student where TIMESTAMP(reg_date,'YYYY-
MON-DD') >= TIMESTAMP('2020-03-21','YYYY-MON-DD') and TIMESTAMP(reg_date,'YYYY-MON-
DD') <= TIMESTAMP('2020-07-14','YYYY-MON-DD');
```

fname	lname	classname	reg_date
Blythe	Burton	3AG	2020-05-02
Kessia	Ulises	4AG	2020-03-26
Elisa	Paili	1AG	2020-04-23
Andria	Willi	4AG	2020-04-03
Lucho	Otes	4BM	2020-03-22
Kathryne	Willi	2AG	2020-03-21
Roscoe	Chic	3BM	2020-03-21
Elita	Chic	2BM	2020-03-21
Chris	Willi	3BG	2020-03-21
David	Sanders	2BG	2020-03-21
Brown	Levi	2BG	2020-03-21
Harry	Levi	2BG	2020-03-21
Curly	Marcello	1BG	2020-03-21
Ying	Shaun	1BG	2020-03-21

**8. Query 8**

```
SELECT f.fname as "Parent Name", s.fname as "Student name", s.stu_id, s.classname, s.reg_date
from student s, parent f where f.CNIC= s.FATHER_CNIC AND TIMESTAMP(reg_date,'YYYY-MON-DD') >=
TIMESTAMP('2020-03-21','YYYY-MON-DD') and TIMESTAMP(reg_date,'YYYY-MON-DD')
<= TIMESTAMP('2020-07-14','YYYY-MON-DD');
```

Parent Name	Student name	stu_id	classname	reg_date
Burton	Blythe	19I-0505	3AG	2020-05-02
Ulises	Kessia	19I-0510	4AG	2020-03-26
Pail	Elisa	19I-0511	1AG	2020-04-23
Willi	Andria	19I-0519	4AG	2020-04-03
Otes	Lucho	19I-0520	4BM	2020-03-22
Willi	Kathryne	19I-0521	2AG	2020-03-21
Chic	Roscoe	19I-0522	3BM	2020-03-21
Chic	Elita	19I-0534	2BM	2020-03-21
Willi	Chris	19I-0535	3BG	2020-03-21
Sanders	David	19I-0536	2BG	2020-03-21
Levi	Brown	19I-0537	2BG	2020-03-21
Levi	Harry	19I-0538	2BG	2020-03-21
Marcello	Curly	19I-0539	1BG	2020-03-21
Shaun	Ying	19I-0540	1BG	2020-03-21

**9. Query 9**

```
select p.fname as "Parent_Name", s.fname as "Student_Name",
floor(DATEDIFF(s.reg_date,s.DOB)/365.25) as Child_Age, s.stu_id,s.classname from parent
p,student s where p.cnic = s.father_cnic and (floor(DATEDIFF(s.reg_date,s.DOB)/365.25)) < 4;
```

Parent_Name	Student_Name	Child_Age	stu_id	classname
Sherman	Sidonia	3	19I-0528	1AG
Marcello	Curly	3	19I-0539	1BG
Paddie	Gunar	3	19I-0531	1BM

**10. Query 10**

```
select stu_id, old_class, new_class from class_history where stu_id= '19I-0505';
```

stu_id	old_class	new_class
19I-0505	1AG	2AG
19I-0505	2AG	3AG

## Deliverable 5

### Forms

#### 1. Form Eleven

Humarey Bachchey

### Student Per Class

[ADD NEW STUDENT +](#)

Enter Student ID:

OR

Enter Student First Name:

Enter Student Last Name:

[Search the Record](#)

Class Name: 1BG ( Total Students 2 ):

Roll No: 19I-0539	Name: Curly Marcello	Age(years): 82.5178	Gender: F	<a href="#">UPDATE</a>	<a href="#">DELETE</a>
Roll No: 19I-0540	Name: Ying Shaun	Age(years): 109.6411	Gender: M	<a href="#">UPDATE</a>	<a href="#">DELETE</a>

#### 2. Form Twelve

Humarey Bachchey

### List of Classes

Enter Class Name:

[Search the Record](#)

Class Name: 1BM:	Total Students: 1 Male: 1 Female: 0
Class Name: 2AG:	Total Students: 1 Male: 0 Female: 1
Class Name: 2BC:	Total Students: 3 Male: 2

**3. Form Thirteen**

Humarey Bachchey

**List of Dormant Students**Enter Number of Months: 

OR

Enter Number of Years: **4. Form Forten**

Humarey Bachchey

**Student Info**Enter Student ID: 

OR

Enter Student First Name: Enter Student Last Name : **5. Form Fifteen**

Humarey Bachchey

**Parent Information**Parent CNIC: 

OR

Parent First Name: Parent Last Name :

## 6. Challan Form

Humarey Bachchey

Fee Information	
Challan No. <input type="text"/>	
<input type="button" value="Submit"/>	
Record Not Found!	

## 7. Class Change Form

Class Assignment Form	
Student Information	
Student ID:	<input type="text"/>
Current Class:	<input type="text"/>
New Class:	<input type="text"/>
Reason for Change:	<input type="text"/>
Change Approved By:	<input type="text"/>
<input type="button" value="Submit"/>	

Activate Windows  
Go to Settings to activate Windows



**8. Register Form**

Class Assignment Form	
Student Information	
Student ID:	<input type="text"/>
Current Class:	<input type="text"/>
New Class:	<input type="text"/>
Reason for Change:	<input type="text"/>
Change Approved By:	<input type="text"/>
<input type="button" value="Submit"/>	

Activate Windows  
Go to Settings to activate Windows

**9. Student Accompany Form**

Humarey Bachchey	
Student Accompanying Form	
Student Information	
Student ID:	<input type="text"/>
Student Name:	<input type="text"/>
Student Class:	<input type="text"/>
Guardian Information	
CNIC:	<input type="text"/>
Name:	<input type="text"/>
Pregnant: Yes <input type="radio"/> No <input type="radio"/>	
Reason for Absence:	<input type="text"/>
<input type="button" value="Submit"/>	

Activate Windows  
Go to Settings to activate Windows

## 10. Student Admission Form

Humarey Bachchey

Student Admission Form		
<b>Student Information</b>		
First Name <input style="width: 80%;" type="text"/>	<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 3px; padding: 2px 5px;">Choose File</div> <div>No file chosen</div> </div>	Last Name <input style="width: 80%;" type="text"/>
Date of Birth <input style="width: 80%;" type="text" value="mm/dd/yyyy"/>		
Gender Male <input type="radio"/> Female <input type="radio"/>		
Co Education Yes <input type="radio"/> No <input type="radio"/>		
<b>Parent Information</b>		
Mother First Name <input style="width: 80%;" type="text"/>		Father First Name <input style="width: 80%;" type="text"/>
Mother Last Name <input style="width: 80%;" type="text"/>		Father Last Name <input style="width: 80%;" type="text"/>
Mother Contact <input style="width: 80%;" type="text"/>		Father Contact <input style="width: 80%;" type="text"/>
Mother CNIC <input style="width: 80%;" type="text"/>		
Mother Email <input style="width: 80%;" type="text"/>		

## HOME PAGE

