|  |  |
| --- | --- |
|  | **UNIVERSITY ADMISSION SYSTEM** |
|  |  |

**Qwertyuiopasdfghjklzxcvbnmqwertyuipasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghj**

**klzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnm**

|  |
| --- |
| **ABASYN UNIVERSITY ISLAMABAD CAMPUS**  Project Report On  University Admission  For the course  Database Management Systems  Submitted by  Zobia Khalid Malik(3355)  Syeda Kainat(3256)    4th semester of BSSE  Course Instructor: Dr Amjad Memhood  Guided by: Sir Kaleem Ullah  Submitted to  Sir Kaleem Ullah for the Academic year of spring 2020 |

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# Chapter 1

## Introduction:

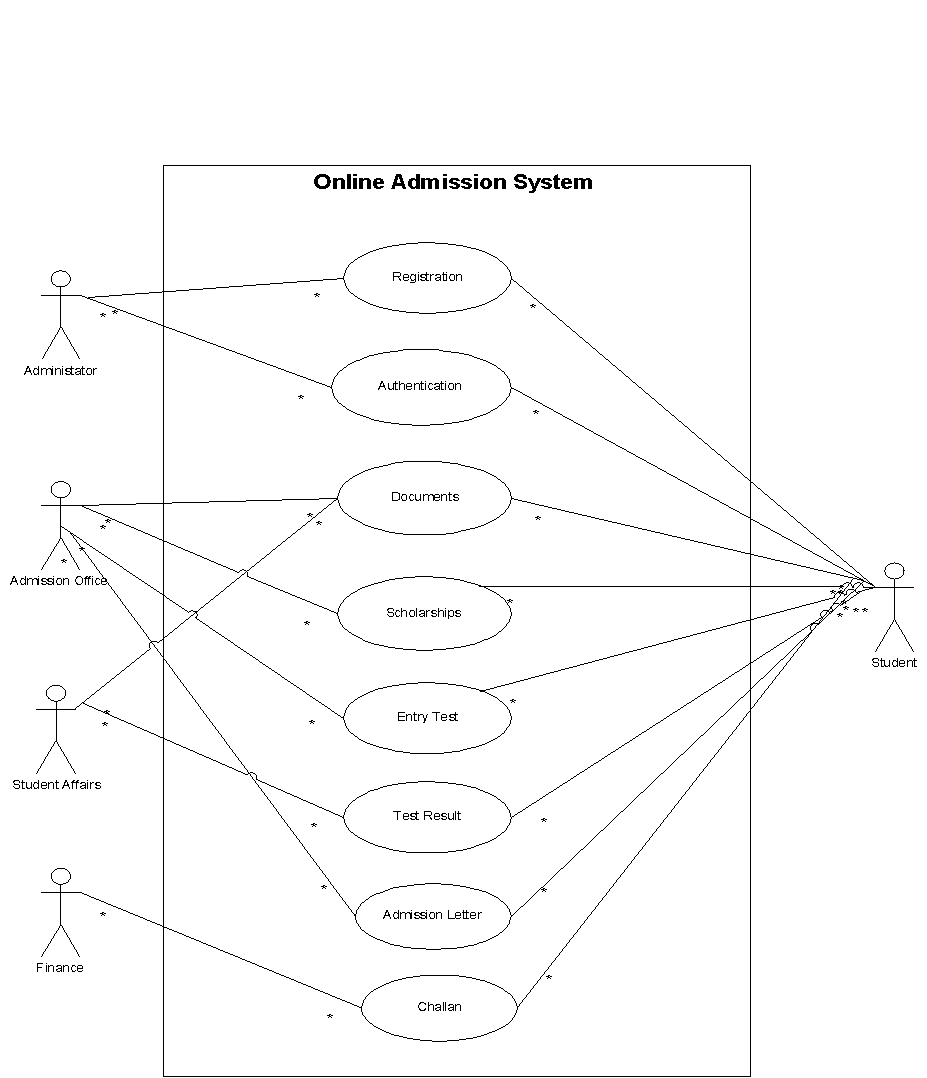
The objective of the Online Admission System is to provide a system which handles the records and information related to admission, whether new or old admissions, accepted and rejected all admissions into the admission system and maintaining their admission records. It takes care of all their details, documents, degree choosed, challans, and their departmental information. Data will be stored into a database.

### Modules in Online Admission System

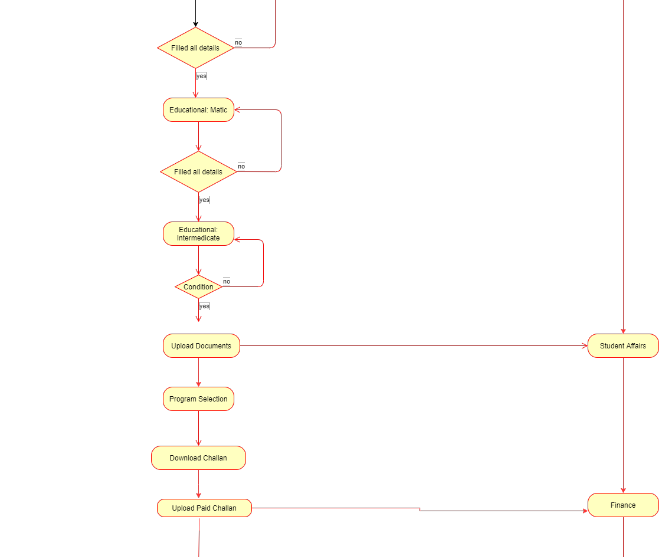
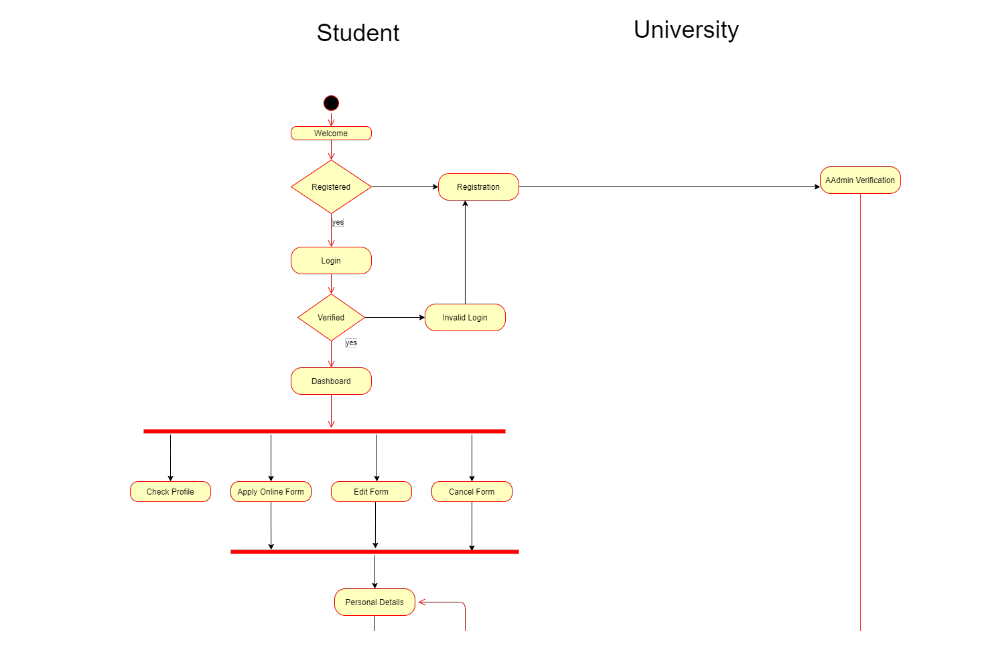
* Registration for Admission.
* Admission details, criteria, curriculum and prospectus.
* Adding new Admissions into the system.
* Adding new details about admission into the system.
* Adding Documents into the system.
* Adding created Challan and paid Challan into the system
* Searching user by id in the system
* View all admission forms by id in the system.
* Storing, updating and Deleting the information about both accepted and rejected admission, scholarships percentage and toppers details.

## Use Case:

### Diagram:



## Activity Diagram:





# Chapter 2

## SCENERIO:

Student comes to university admission system. Click on apply for online admission the system generates alert to login first. If the user has an account, can simply login. If not need to register first. After as registered user, the user can access admission form.   
Firt the Personal details activity open for user to enter all his personal details in the system. In system the personal details records and can be identified with unique primary key. The details of personal form is First Name, Last Name, Date of Birth, Gender, CNIC, Nationality, Email, Phone Number, Father’s name and CNIC, Mother’s name and CNIC, Permanat and temporary address.   
Redirect through next button after filling personal details. The Educational detail module is alsi divided into pages with next navigate button,

1. Matric
2. Intermdiate.

Both Modules gets the details of user educational background. The details will be store in the educational table anc can be identified by the e\_id unique id. The other details will be board name, school/college name, obtained marks, total marks, percentage, and in the end needs to upload the certificates.

After the educational moduole the program module will be open where the use will insert his priority based program selection/option. And data stores in the database systems, can be reterive by unique id.

The last is the challan module where user downloads the challan. Challan will generate according to users program selection. The user will download that created challan and pays nearer bank. After paying the challan the user needs to upload that challan. The challan will be stored in the system challan table with unique idenitification of C\_id, upload day, upload time etc.  
The Form table has record of full detail of all the tables personal, educational, program and challan tables as their unique keys as foreign key in the Form table. The form table has also unique id names as Fid,Form submission applied date, time, status (accept or reject) etc.

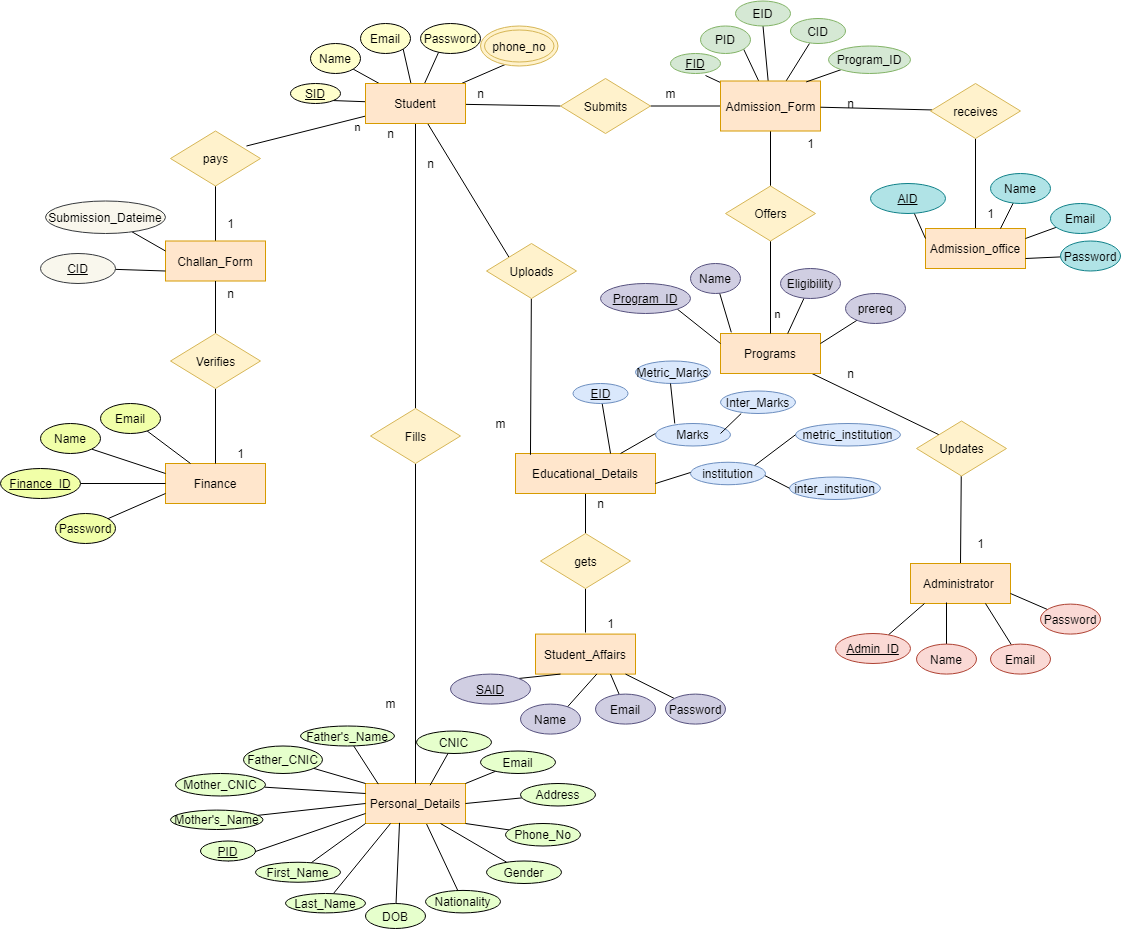
# Chapter 3

DESIGN AND ANALYSIS:

In this section we will discuss about ERD, and its conversion into relation, creating tables and its normalization, creating all three schemas of course allocation system.

## ER DIAGRAM:

This is the ERD diagram of university admission system.

****

## Relation:

Many student submit many forms



### Degree: 2

Cardinality: 1:1



### Degree: 2

Cardinality: n: 1



### Degree: 2

Cardinality: n: 1



### Degree: 2

Cardinality: n: 1



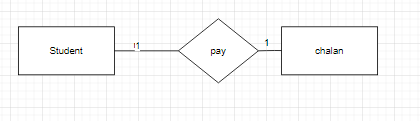
### Degree: 2

Cardinality: n: 1



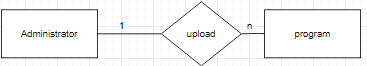
Degree: **2**

Cardinality: 1:n



Degree: 2

Cardinality: 1:1



Degree: 2

Cardinality: 1:n



Degree: 2

Cardinality: 1:n

## ER TO RELATIONAL TRANSFORM:

### Mapping of regular entities

Student

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SID | NAME | EMAIL | PASSWORD | NUMBER |

Personal detail

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| PID | F\_NAME | L\_NAME | DOB | NATIONALITY | EMAIL | GENDR | T\_ADRESS | P\_ADRESS |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CINC | F\_NAME | F\_CNIC | M\_NAME | M\_CNIC | NUMBER |

Student\_affair

|  |  |  |  |
| --- | --- | --- | --- |
| AID | NAME | EMAIL | PASSWORD |

Finance

|  |  |  |  |
| --- | --- | --- | --- |
| FID | NAME | EMAIL | PASSWORD |

Administrator

|  |  |  |  |
| --- | --- | --- | --- |
| Admin\_ID | NAME | EMAIL | PASSWORD |

Admission office

|  |  |  |  |
| --- | --- | --- | --- |
| AID | NAME | EMAIL | PASSWORD |

Educational detail

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EID | METRIC MARKS | INTER MARKS | METRIC INS | INTER INS |

Program

|  |  |  |  |
| --- | --- | --- | --- |
| PROGRAM\_ID | NAME | ELIGIBILITY | PRE\_REQ |

Chalan\_form

|  |  |
| --- | --- |
| SUBMIT\_ DATE | CID |

Admission form

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FID | EID | CID | PID | PROGRAM\_ID |

### Mapping of Weak Entity Types

There are no weak entities.

### Mapping of Binary 1:1 Relation Types

There are three 1: 1 relationship:

1. Student & admission\_form
2. Student & chalan
3. Admission\_form & Admission\_office

### Mapping of Binary 1: N Relationship Types.

There are six 1: N relationship

1. Student& Personal\_Detail
2. Finance & Chalan
3. Administrator& Program
4. Admission\_form & Program
5. educational\_Detail & Student\_affair
6. student & educational\_Detail

### Mapping of Binary M: N Relationship Types.

There is no M: N relationship.

### Mapping of Multivalued attributes.

There are no multivalued attribute.

### SCHEMAS:



### Conceptual schemas:



### Internal schemas:

CREATE TABLE **STUDENTS**(

2 SID NUMBER(5) NOT NULL PRIMARY KEY,

3 NAME VARCHAR(50) NOT NULL,

4 EMAIL VARCHAR(50) NOT NULL,

5 PASSWORD VARCHAR(30) NOT NULL,

6 CONTACT\_NO NUMBER(11)

7 );

CREATE TABLE **PERSONAL\_DETAIL**(

2 PID NUMBER(5) NOT NULL PRIMARY KEY,

3 FNAME VARCHAR(50)NOT NULL,

4 LNAME VARCHAR(50)NOT NULL,

5 EMAIL VARCHAR(30) ,

6 CONTACT\_NO NUMBER(20),

7 TEMP\_ADDRESS VARCHAR(50),

8 PER\_ADDRESS VARCHAR(50),

9 FATHER\_NAME VARCHAR(50),

10 MOTHER\_NAME VARCHAR(50),

11 FATHER\_CNIC NUMBER(20),

12 MOTHER\_CNIC NUMBER(20),

13 CNIC NUMBER(20)

14 ,DOB VARCHAR(30),

15 NATIONALITY VARCHAR(30)

16 );

CREATE TABLE **CHALAN(**

2 CID NUMBER(5) NOT NULL PRIMARY KEY,

3 SUBMIT\_DATE VARCHAR(20)

4 );

CREATE TABLE **FINANCE**(

2 FINANCE\_ID NUMBER(5) NOT NULL PRIMARY KEY,

3 NAME VARCHAR(50),

4 EMAIL VARCHAR(50),

5 PASSWORD VARCHAR(20)

6 );

CREATE TABLE **ADMISSION\_OFFICE**(

2 AID NUMBER(5) NOT NULL PRIMARY KEY,

3 NAME VARCHAR(50),

4 EMAIL VARCHAR(50),

5 PASSWORD VARCHAR(20)

6 );

CREATE TABLE **PROGRAM**(

2 PID NUMBER(5) NOT NULL PRIMARY KEY,

3 NAME VARCHAR(50),

4 ELIGIBILITY NUMBER(10),

5 PRE\_REQ VARCHAR(30)

6 );

CREATE TABLE **ADMINISTRATOR**(

2 ADMIN\_ID NUMBER(5) NOT NULL PRIMARY KEY,

3 NAME VARCHAR(50),

4 EMAIL VARCHAR(50),

5 PASSWORD VARCHAR(20)

6 );

CREATE TABLE **EDUCATIONAL\_DETAIL**(

2 EID NUMBER(5) NOT NULL PRIMARY KEY,

3 OBTAINED\_MARKS NUMBER(5),

4 TOTAL\_MARKS NUMBER(5),

5 SCHOOL\_NAME VARCHAR(50),

6 BOARD VARCHAR(40),

7 PERCENTAGE NUMBER(5)

8 );

CREATE TABLE **STUDENT\_AFFAIR**(

2 SAID NUMBER(5) NOT NULL PRIMARY KEY,

3 NAME VARCHAR(50),

4 EMAIL VARCHAR(50),

5 PASSWORD VARCHAR(20)

6 );

CREATE TABLE **ADMISSION\_FORM**(

2 FID NUMBER(5) NOT NULL PRIMARY KEY

3 );

ALTER TABLE **ADMISSION\_FORM**

2 ADD FOREIGN KEY (PID) REFERENCES PERSONAL\_DETAIL(PID);

ALTER TABLE **ADMISSION\_FORM**

2 ADD FOREIGN KEY (EID) REFERENCES EDUCATIONAL\_DETAIL(EID);

ALTER TABLE **ADMISSION\_FORM**

2 ADD FOREIGN KEY (CID) REFERENCES CHALAN\_FORM(CID);

ALTER TABLE **ADMISSION\_FORM**

2 ADD FOREIGN KEY (PID) REFERENCES PROGRAM(PID);

# Chapter 4

IMPLEMENTATION IN SQLPLUS:

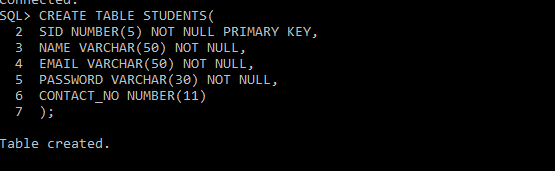
## Creating Table:

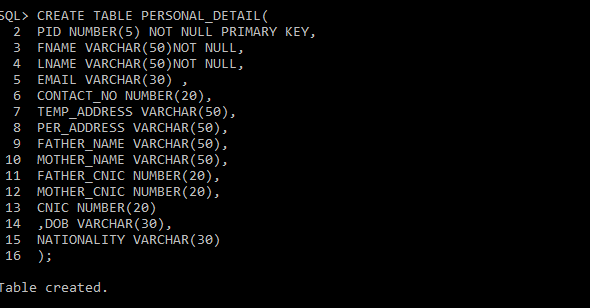
In this section of chapter 4 we are creating Students, Personal\_Detail, Administrator, Chalan\_form,Finance,Admission\_form,Admission\_office,Program,Educational\_detail,

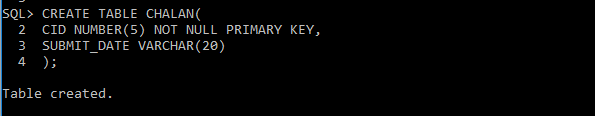
Finance

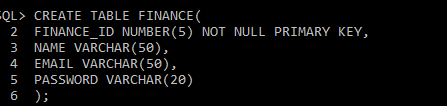
IMPLEMENTATION IN SQL:

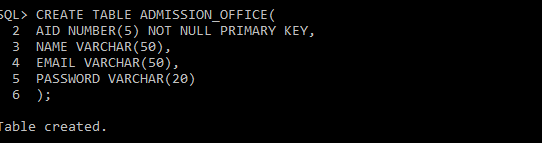
### Creating Table:

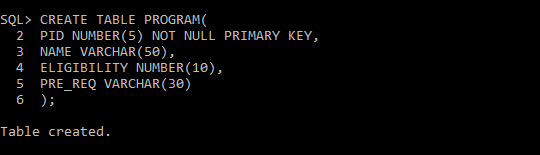


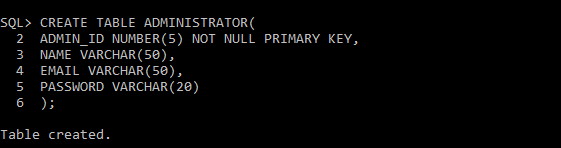


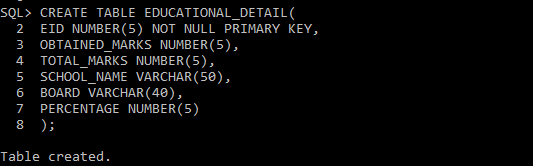


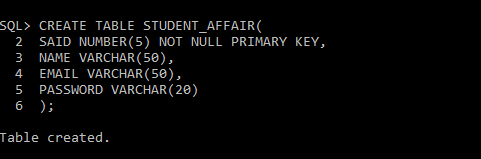


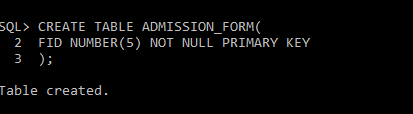


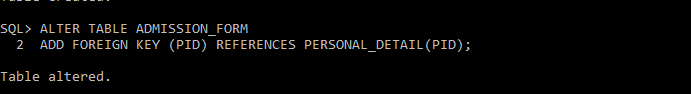


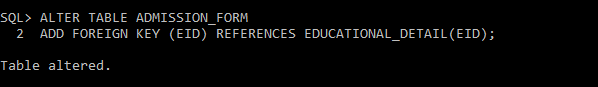


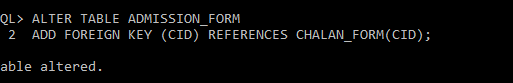






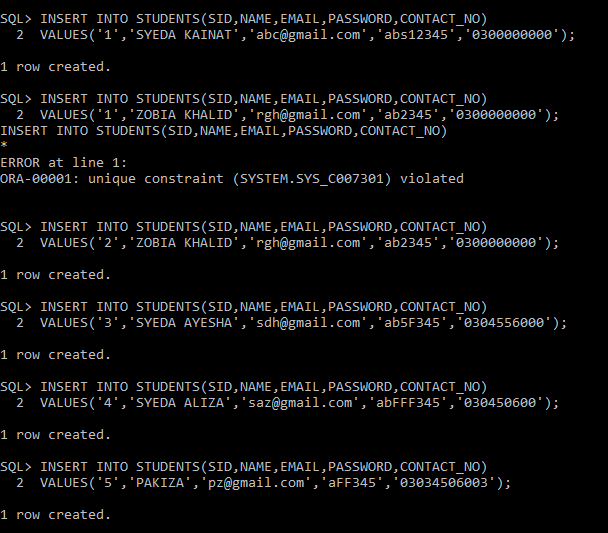


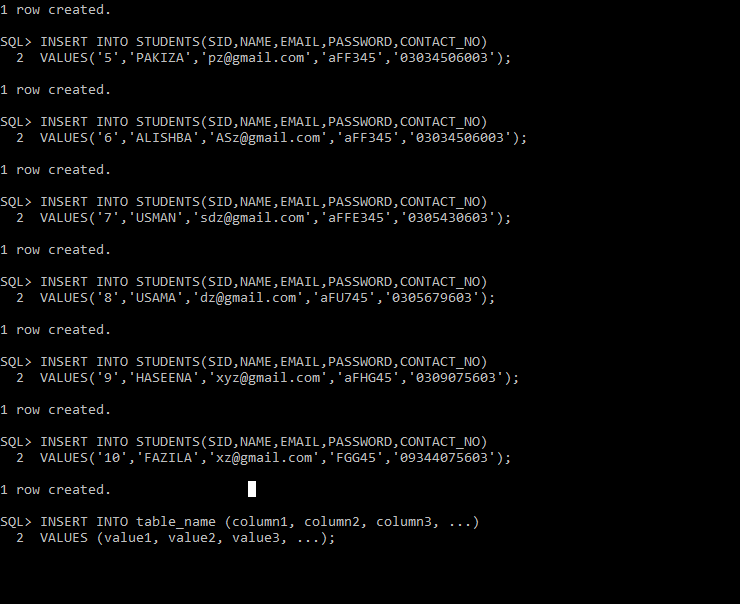


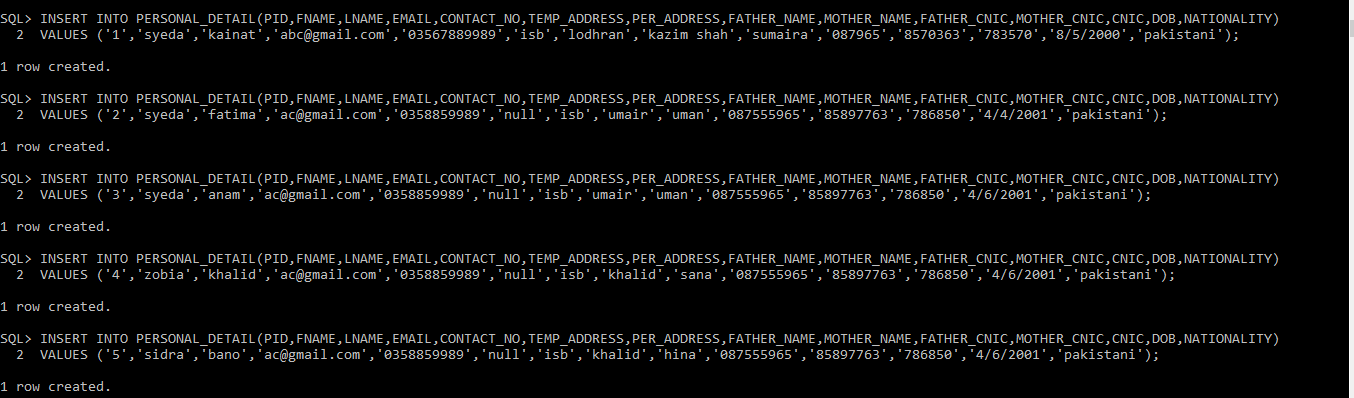


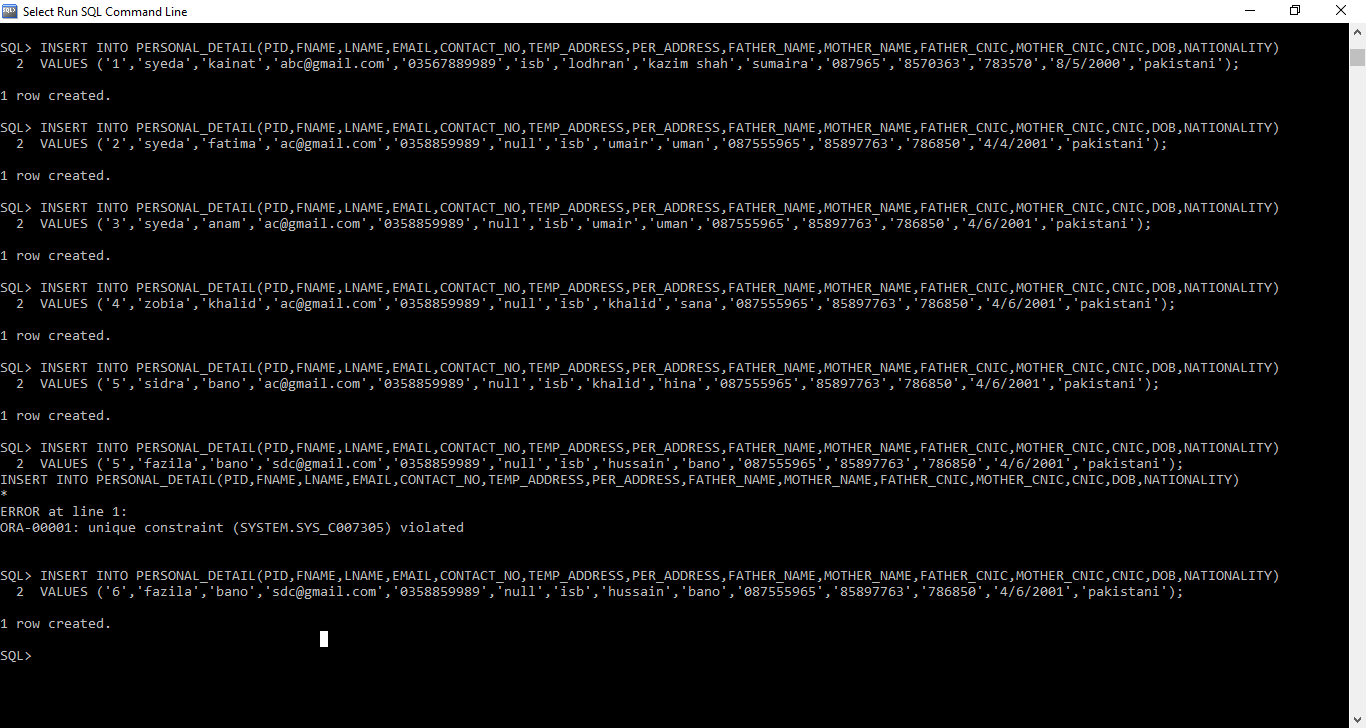
Inserting Data into Tables:

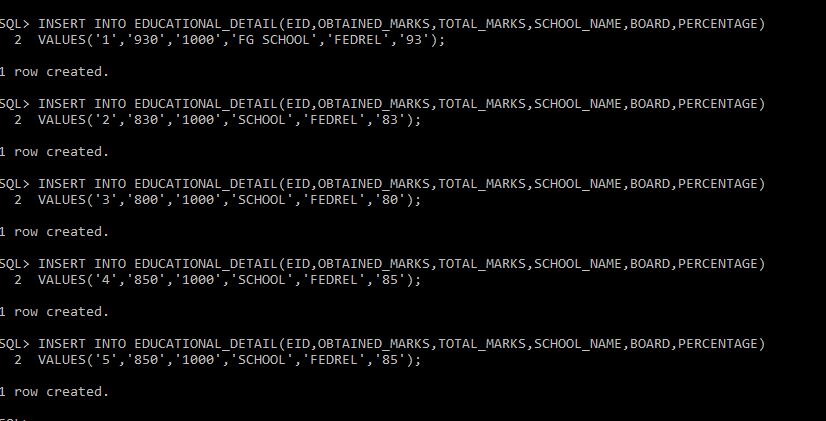
In this section of chapter 4 we are inserting data into tables.

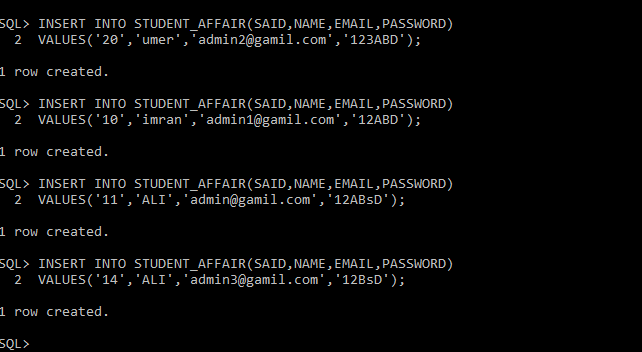
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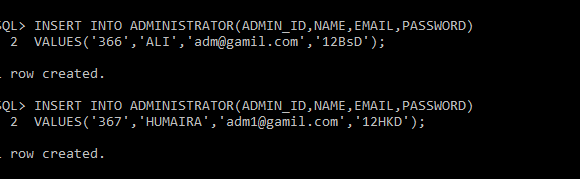


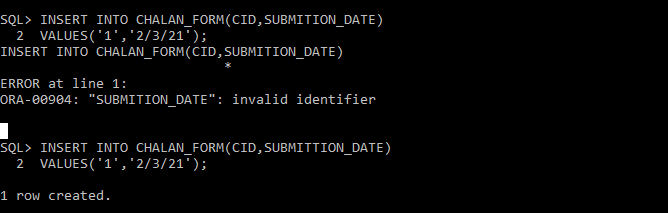


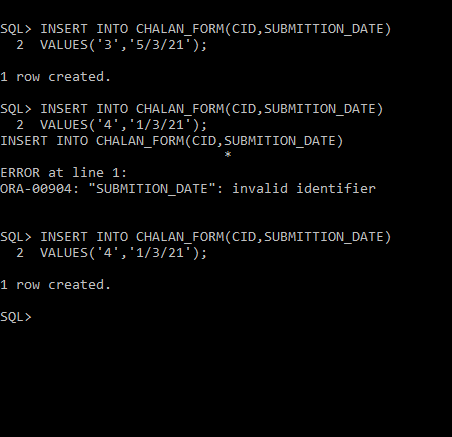


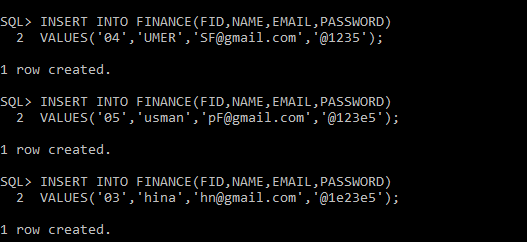






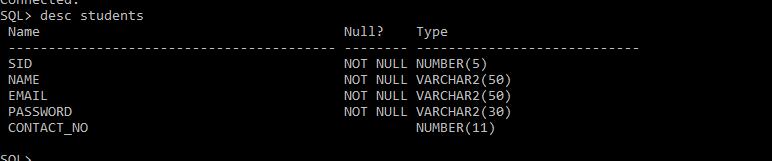


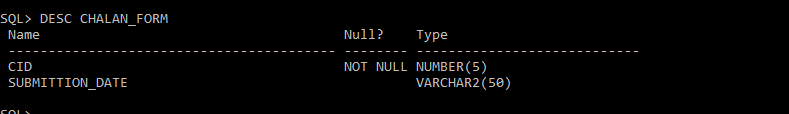


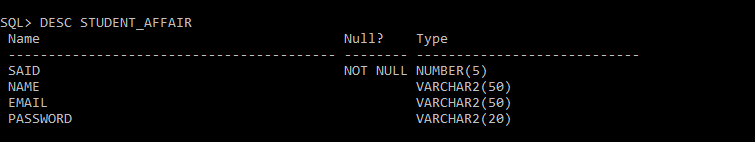


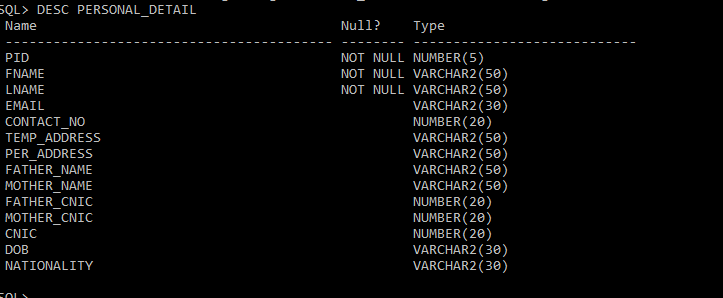
### Describing Tables:

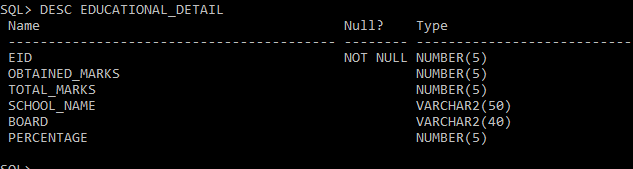
In this section of chapter5 we are describing the tables we had created in SQL.

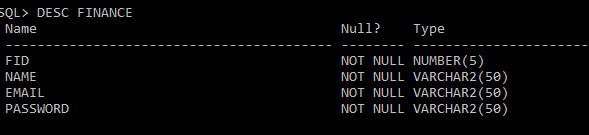


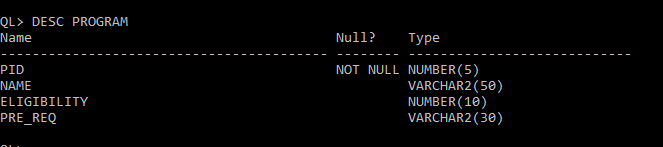


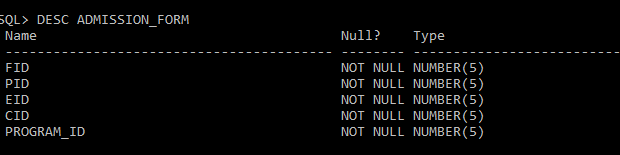


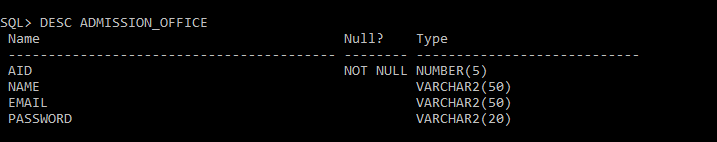


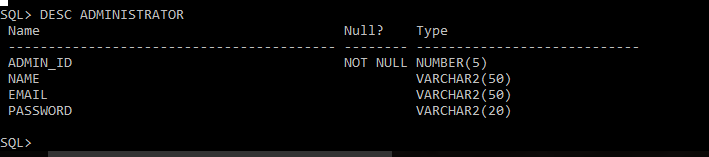




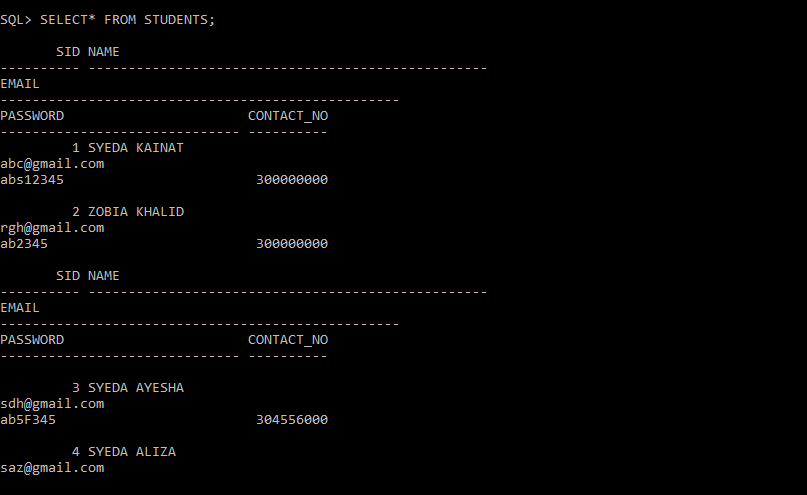


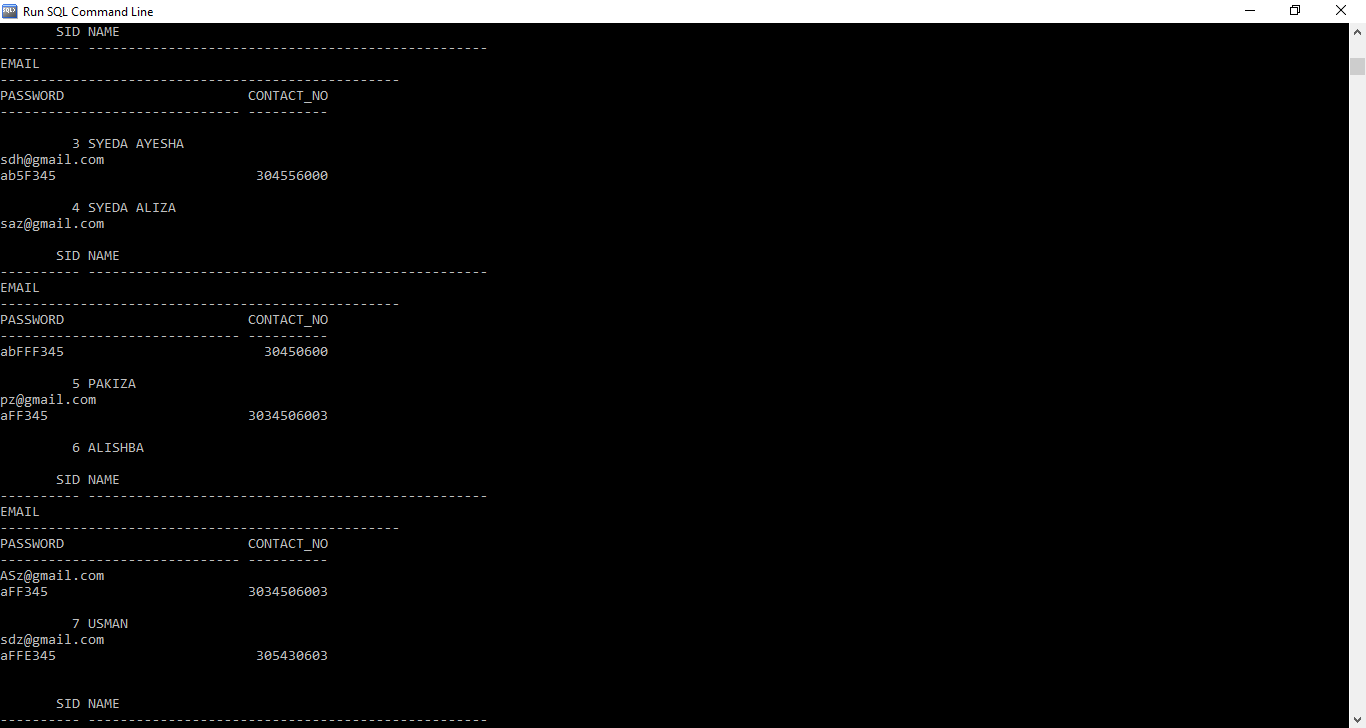


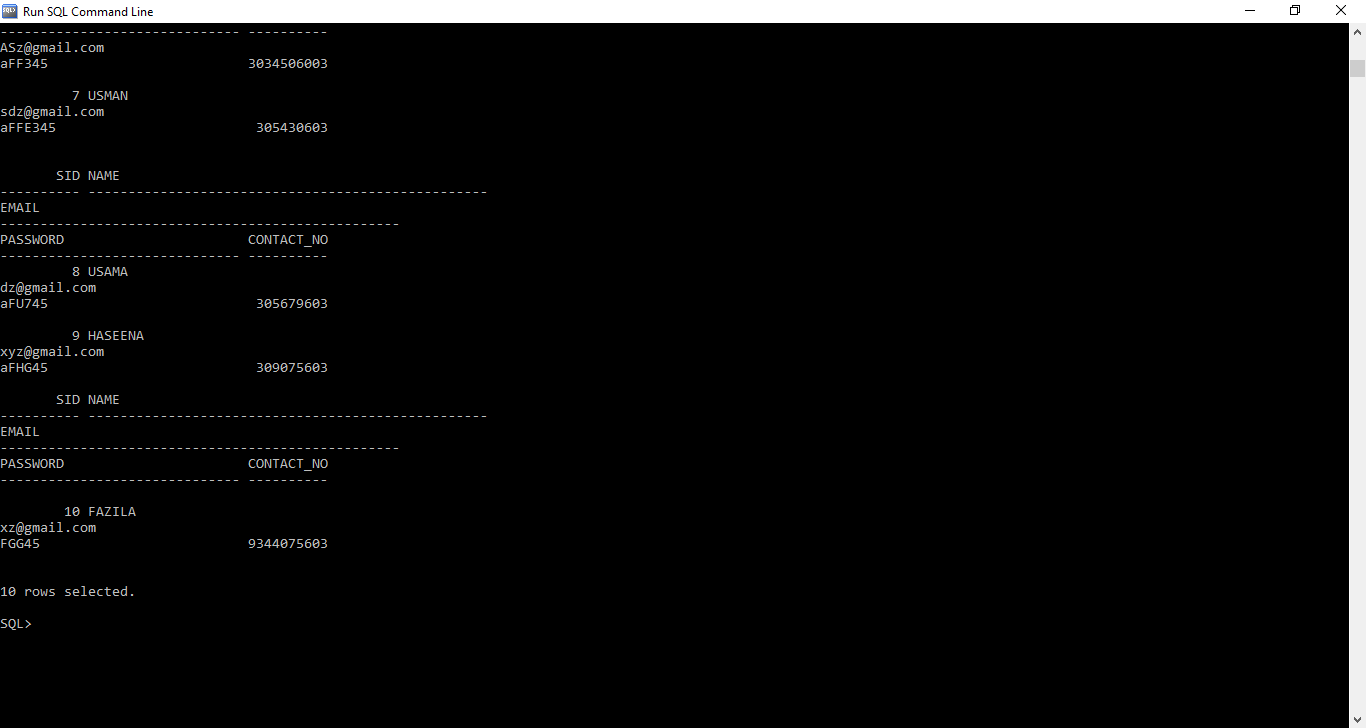


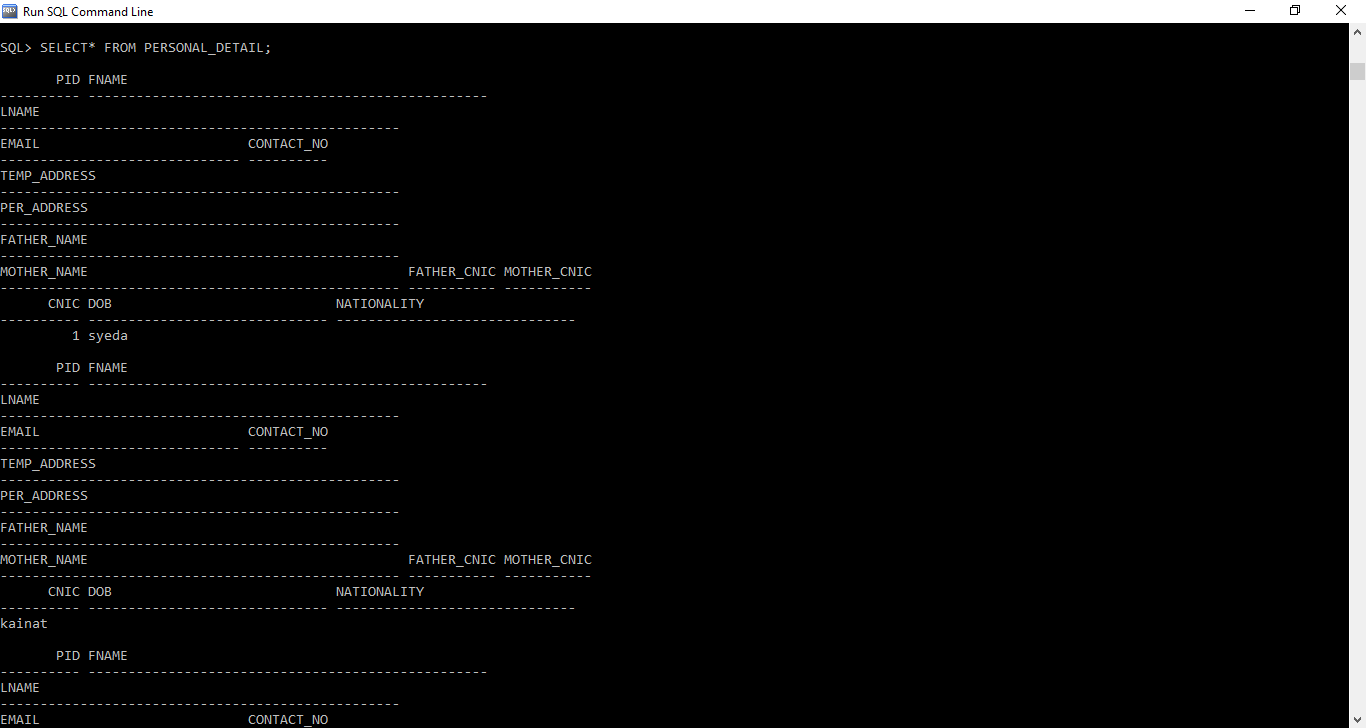


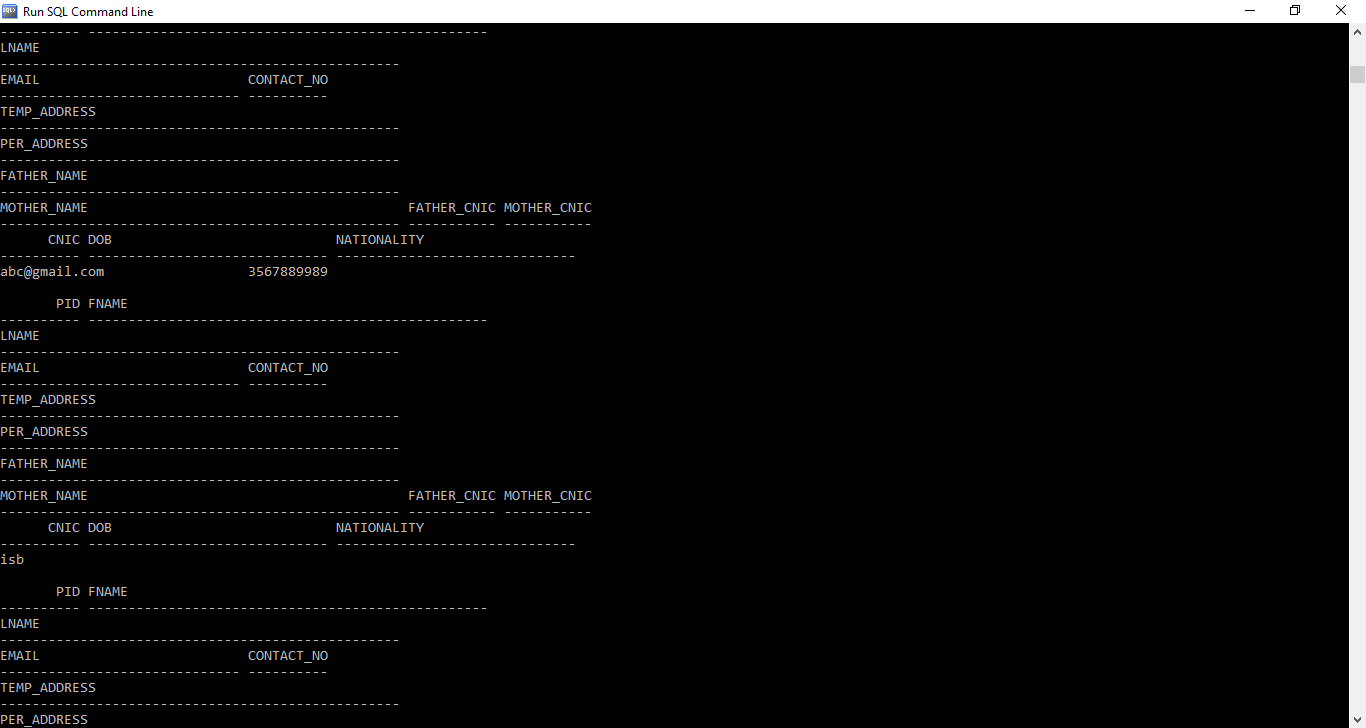
### Selecting from Tables:

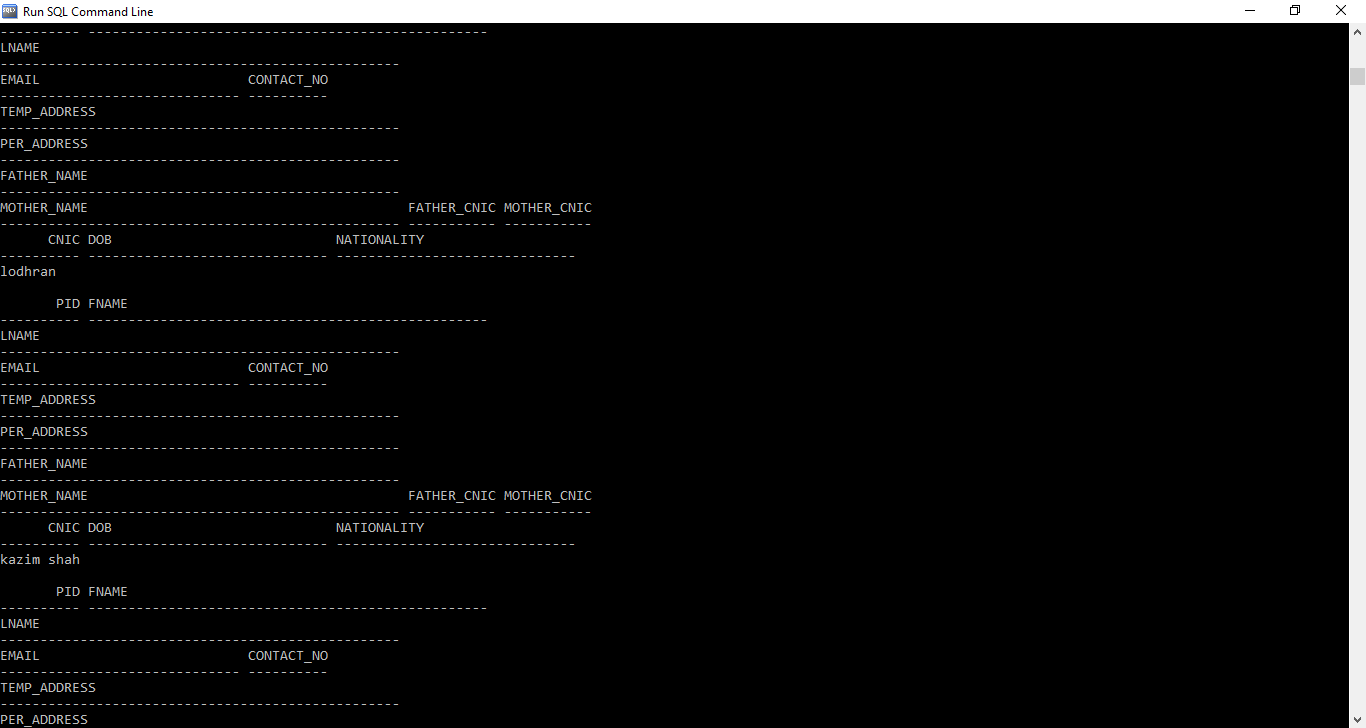


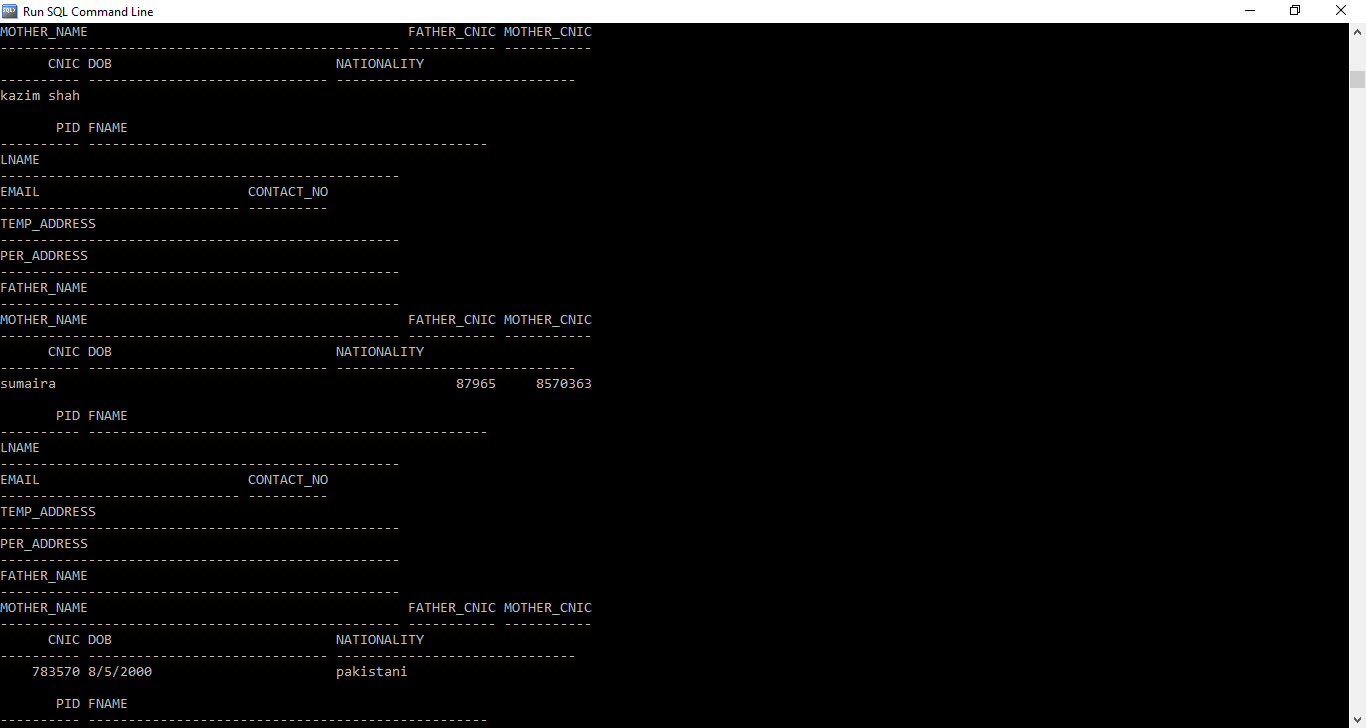


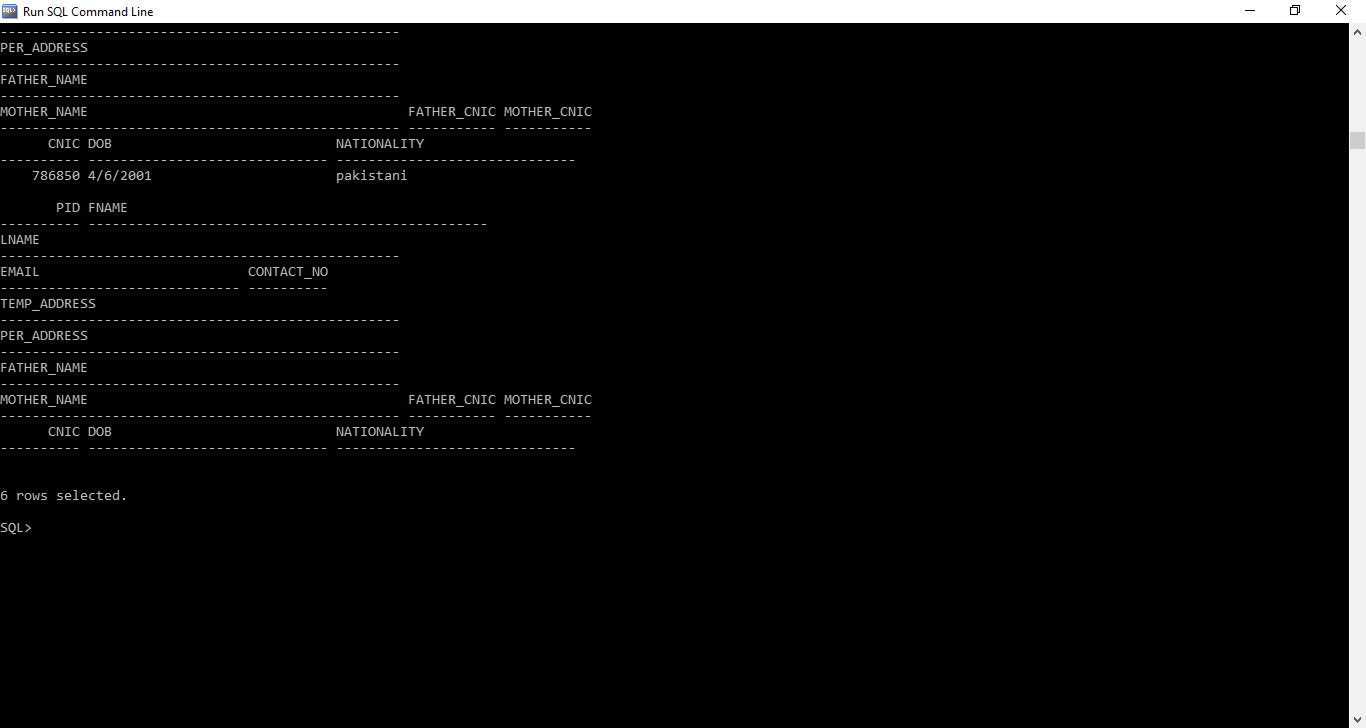


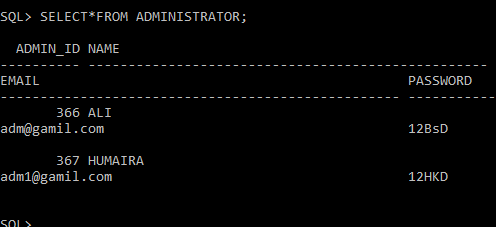


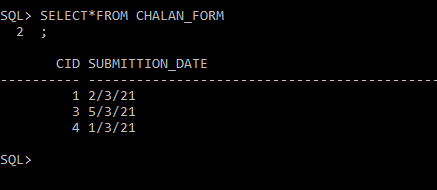


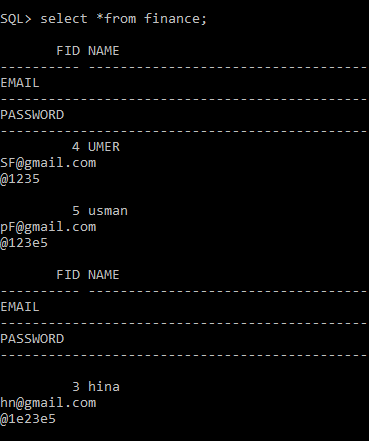








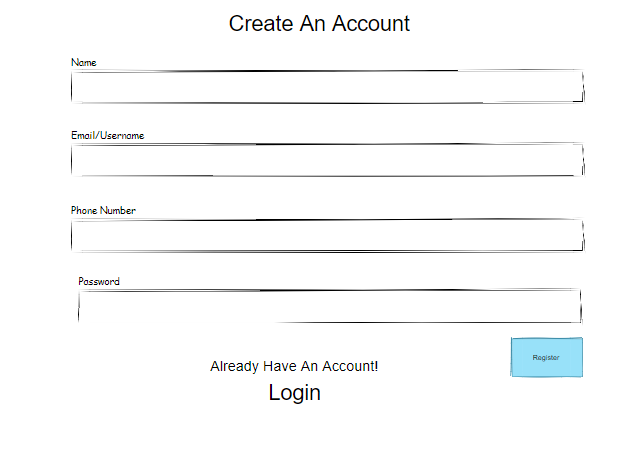




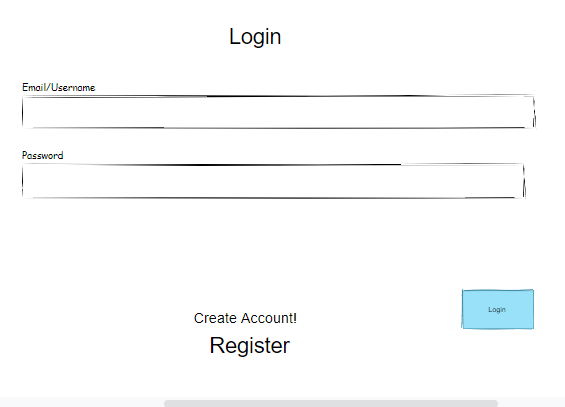
# Chapter 6

## Interface Diagram

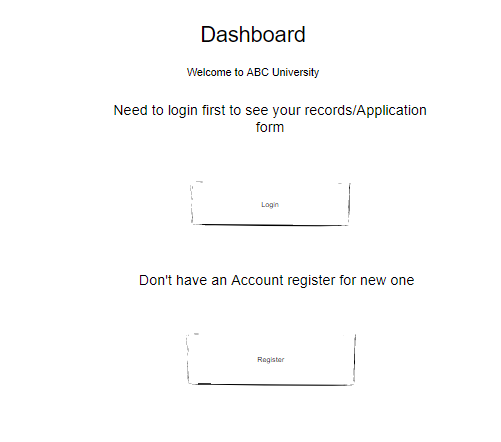
### Resgisteration



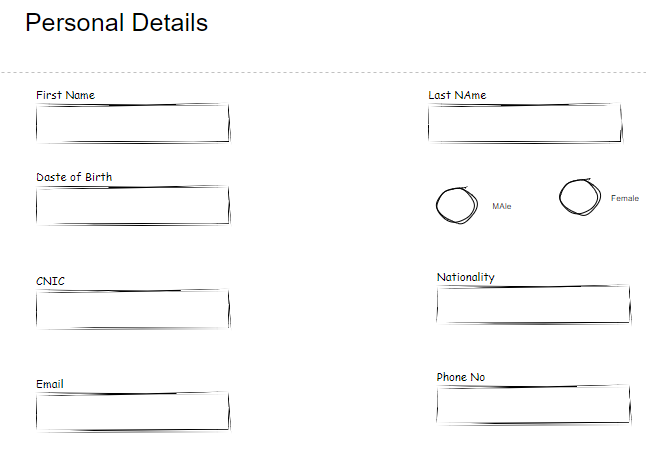
### Login

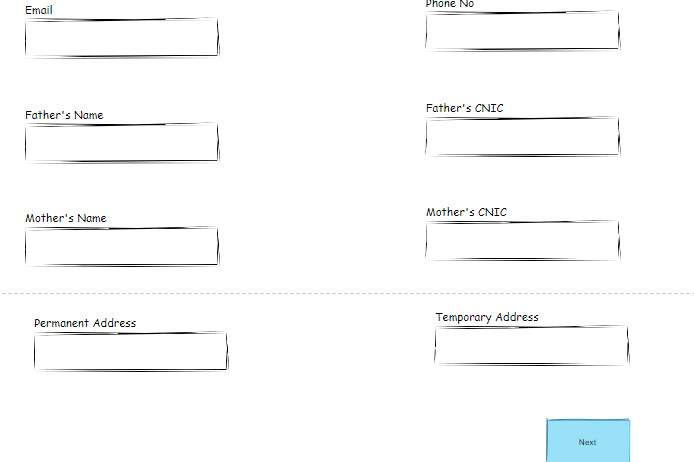


### Dashboard

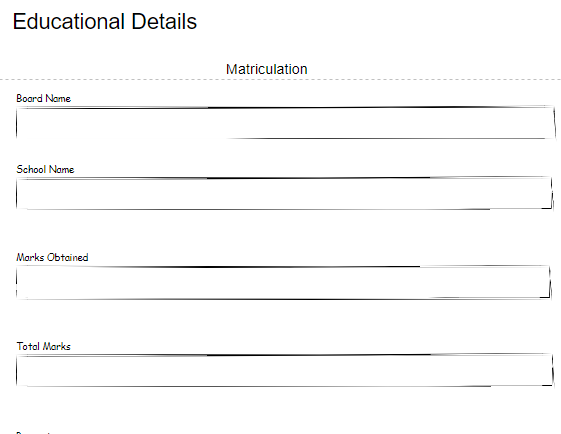


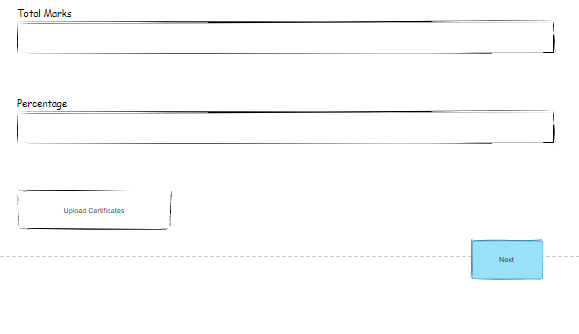
### Personal Details

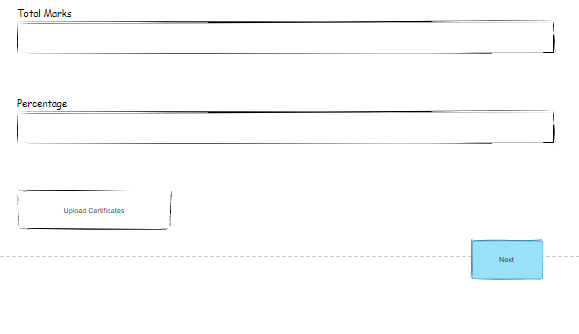
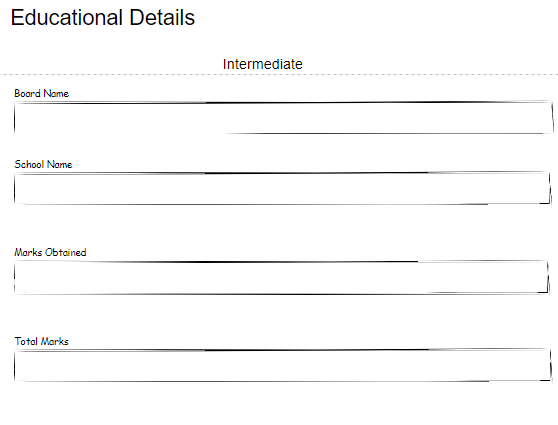




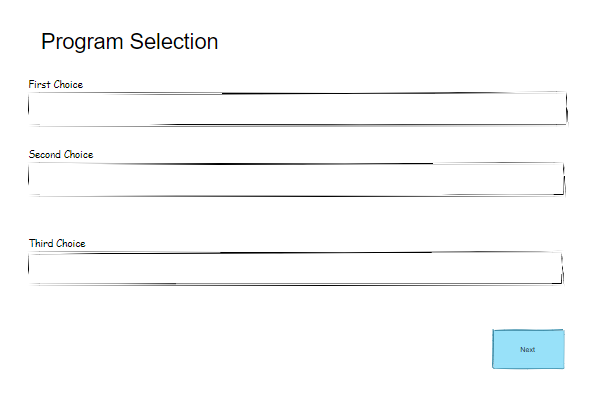
## Educational Details







### Program Selection

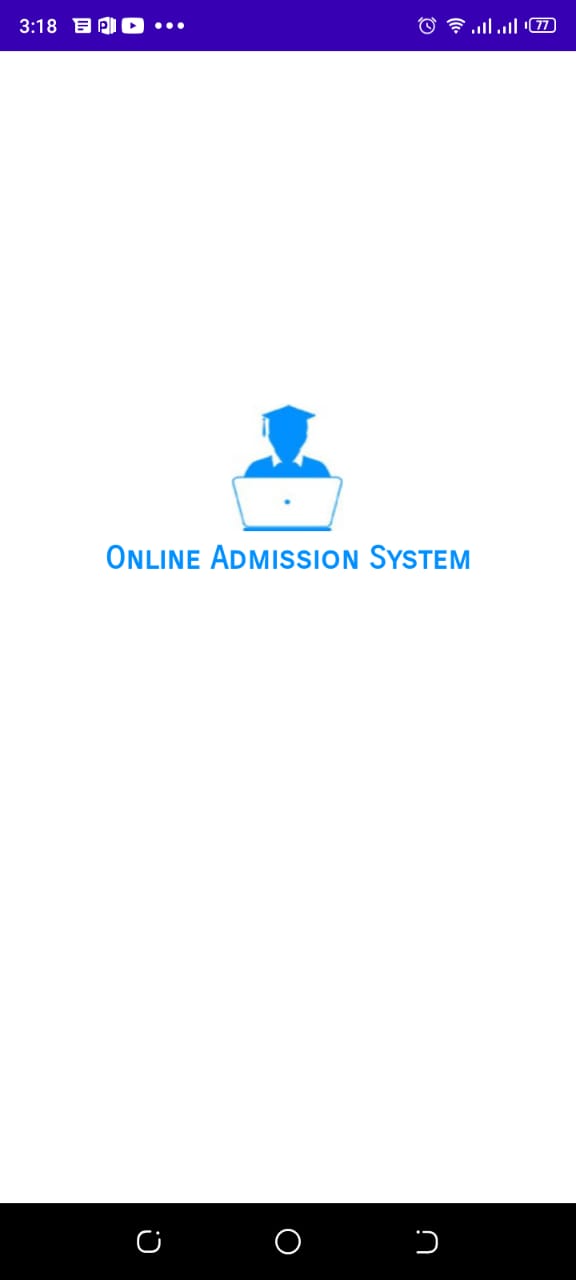


## Challan

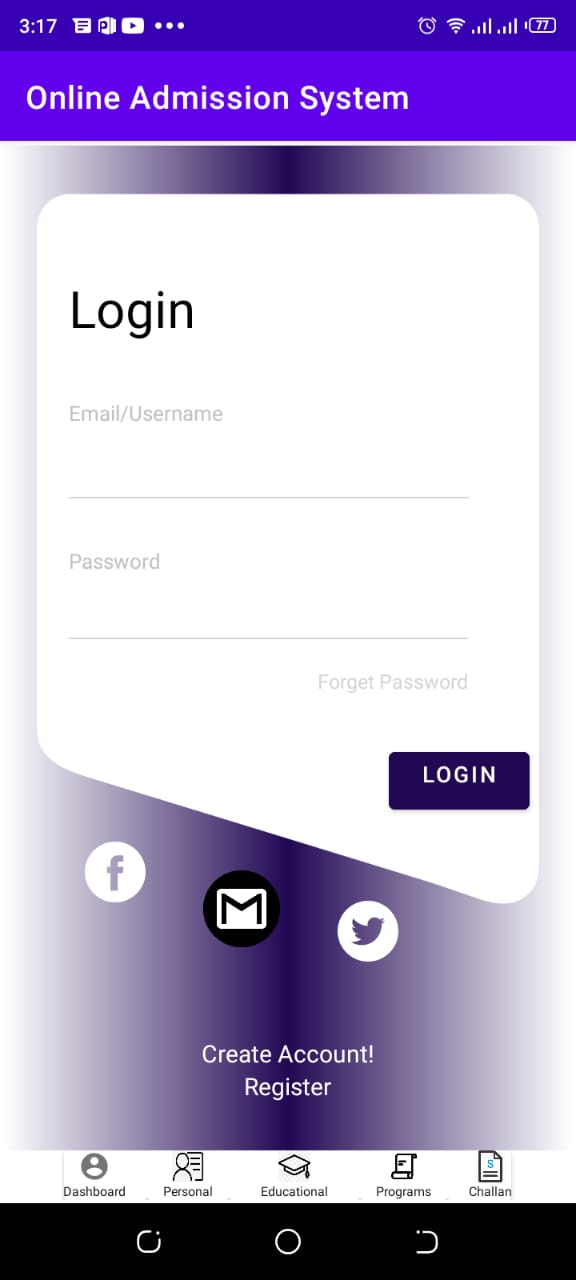


## Design Implementatio Andriod

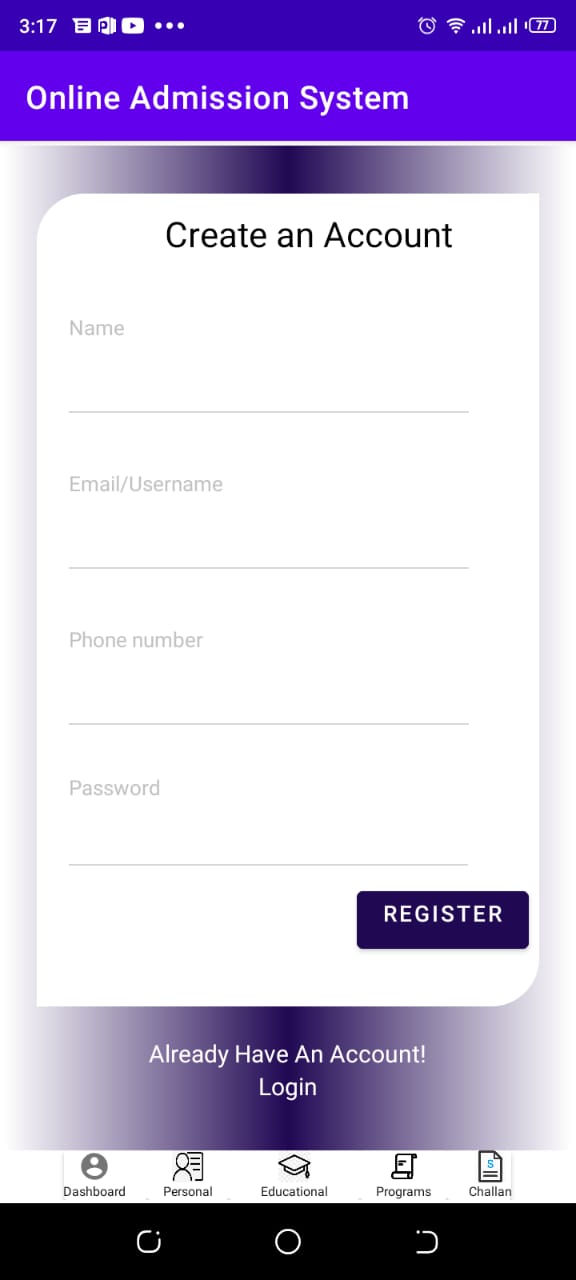
## Intro Scree



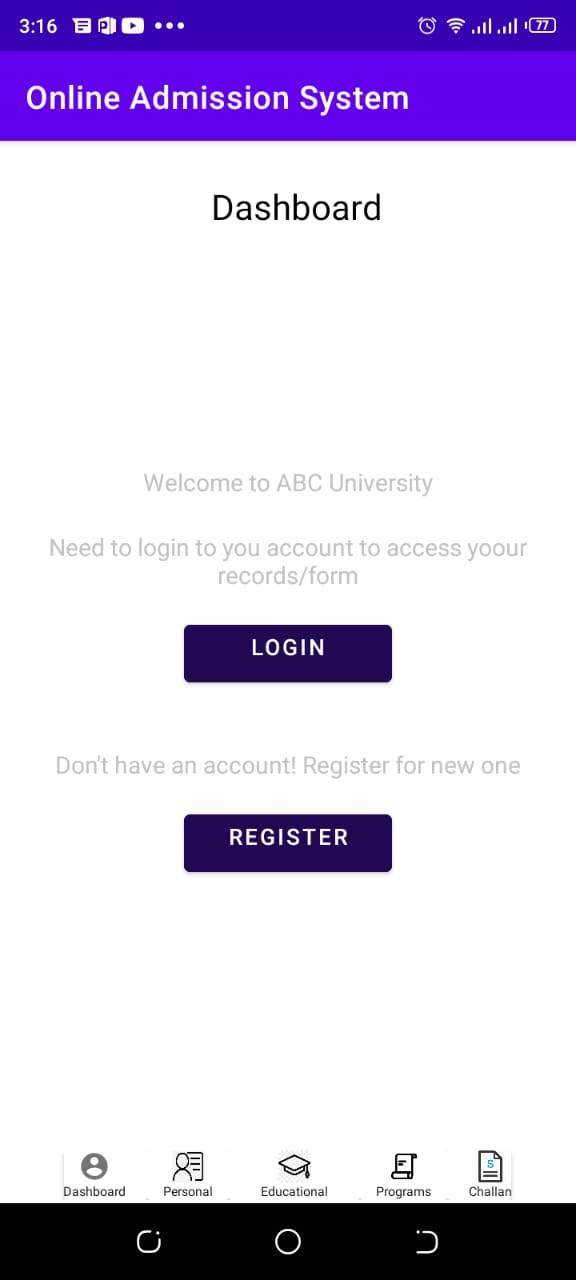
## Login



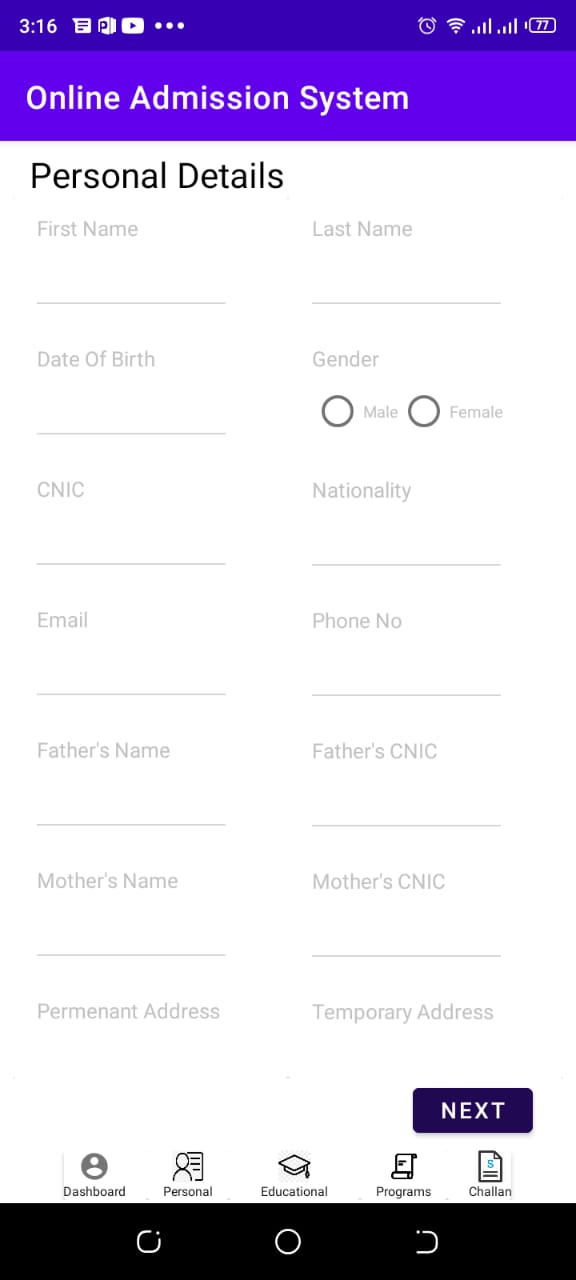
## Registeration



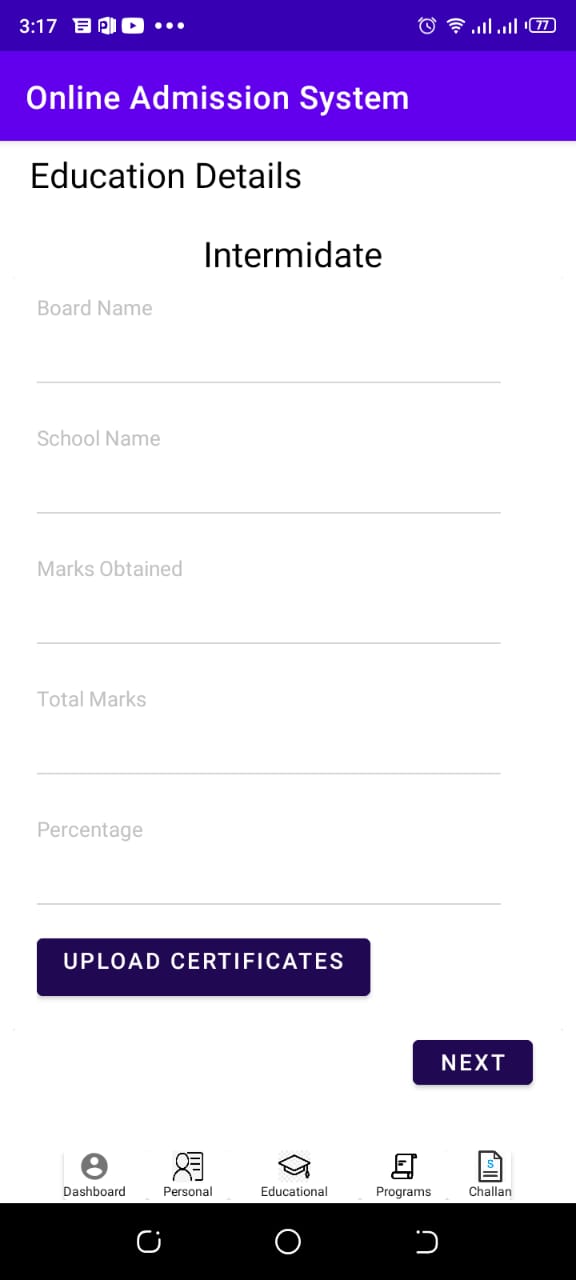
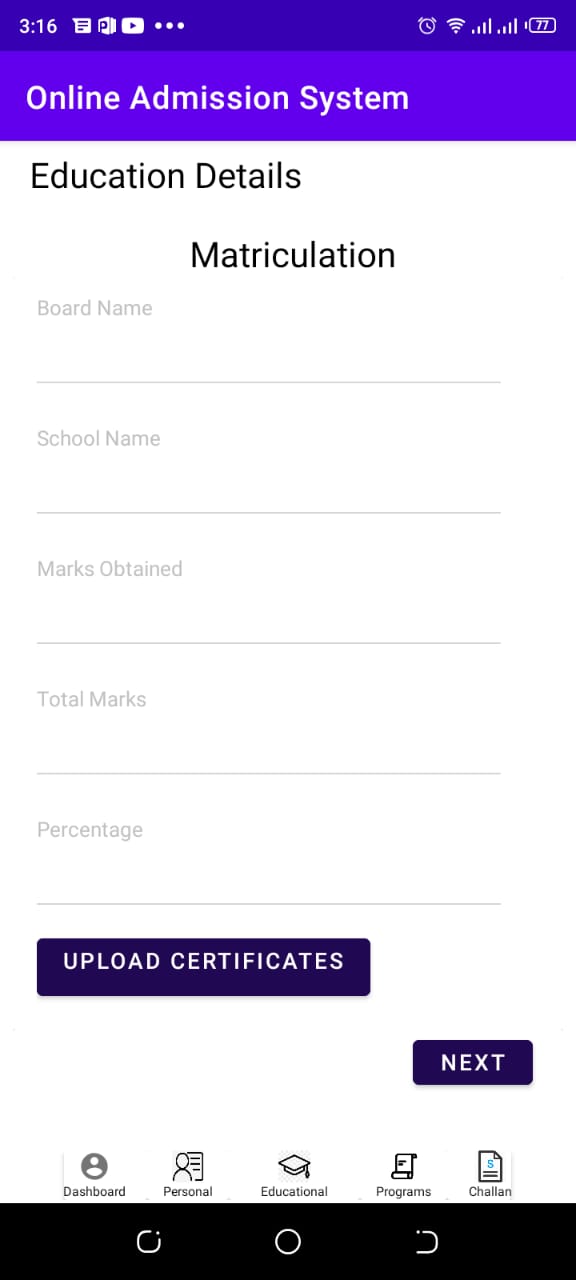
## Dashboard



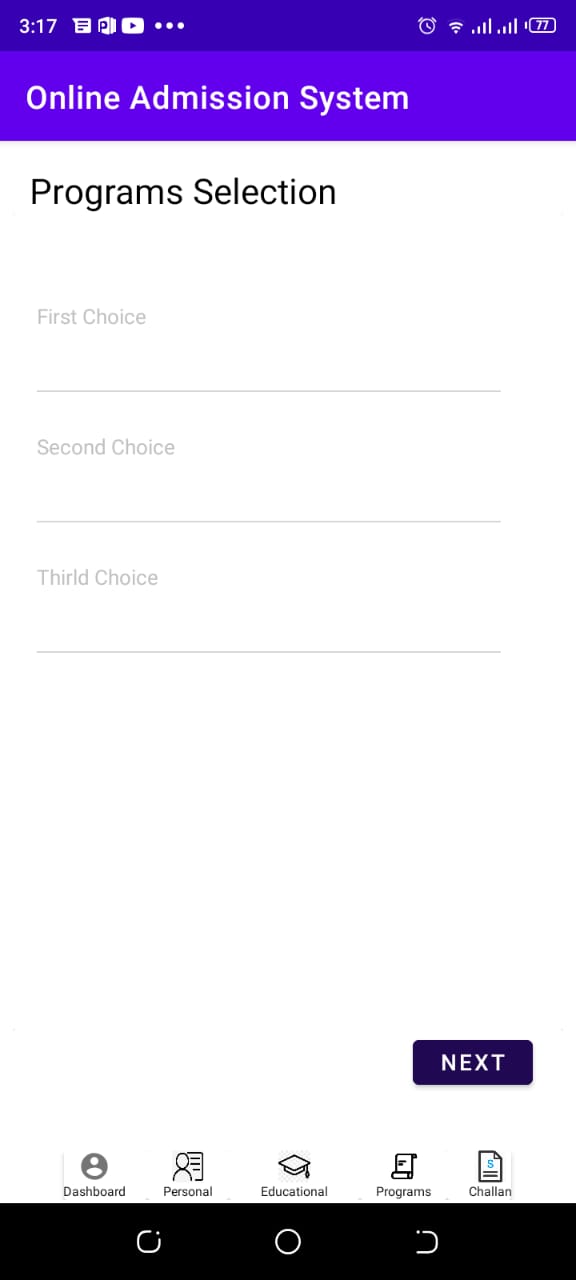
## Personal Details



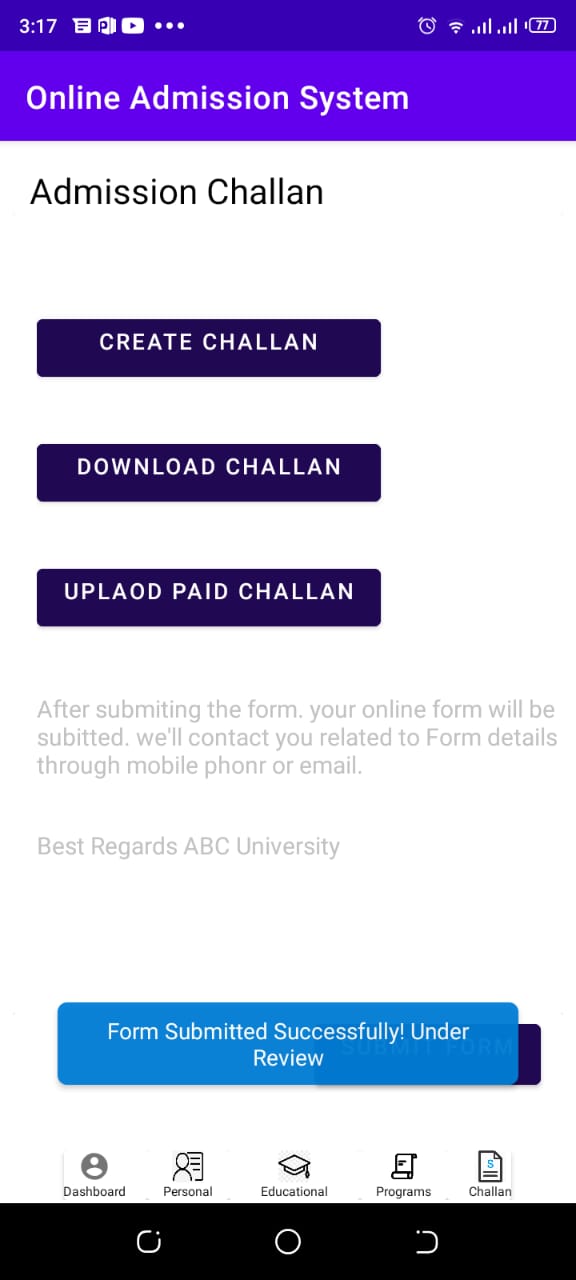
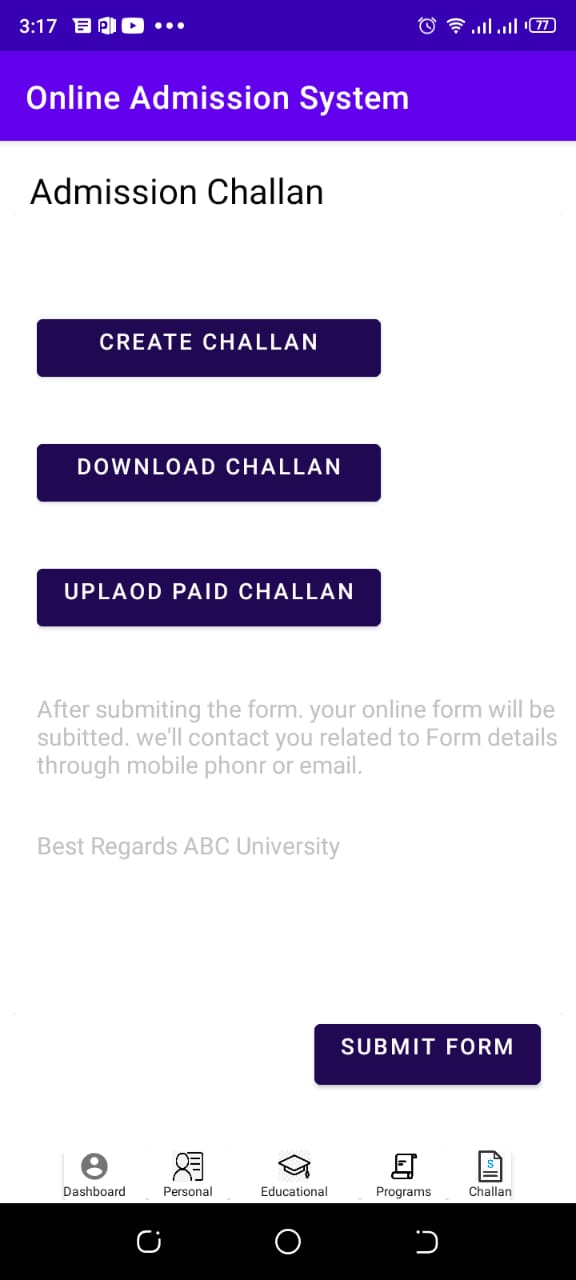
## Educational Details



## Program Selection



## Challan Form



# Chapter 7

## CONCLUSION:

Now we will conclude the whole project in this section.

This project is about creating a database for UNIVERSITY ADMISSION SYSTEM.

Firstly, we collected data and information from many different sources and then we analyze that data to have some outcomes. After this, we design the ERD for this system. Then we define tables using ERD for the system..

Then we started our project in SQLPLUS developer. We use SQLPLUS developer for the code of our system. We make tables, apply primary keys and foreign keys which shows the relationships between our entities.

Then we insert data our tables and test our database. After testing, our database is fully optimized.

The APK code file is uploaded on lms.