Index tables (college db)

1. Post(post\_id, post)

post\_id int(2) primary key auto\_increment,

post varchar(30),

1. Discipline(discipline\_id,discipline)

discipline\_id int(1) primary key auto\_increment,

discipline varchar(15),

1. Category(cat\_id,category)

cat\_id int(1) primary key auto\_increment,

category varchar(10),

1. Gender(gender\_id,gender)

gender\_id int(1) primary key auto\_increment,

gender varchar(10),

1. Specialization(spe\_id, specialization)

spe\_id int(3) primary key auto\_increment,

specialization varchar(50),

1. Board(board\_id,board)

board\_id int(1) primary key auto\_increment,

board varchar(50),

1. States(state\_id,state\_name)

state\_id int(2) primary key auto\_increment,

state\_name varchar(50),

1. Istream(stream\_id,stream\_name)(intermediate stream MPC,BiPC……)

stream\_id int(2) primary key auto\_increment,

stream\_name varchar(40),

1. College(college\_id, college\_name)

college\_id int(4) primary key auto\_increment,

college\_name text,

1. Exams(exam\_id, exam\_name)

exam\_id int(2) primary key auto\_increment,

exam\_name varchar(20),

1. Stream(stream\_id, stream\_name)(College stream ….. ECE,CSE…)

stream\_id int(2) primary key auto\_increment,

stream\_name varchar(40),

1. job\_nature(job\_nature\_id, job\_name)(teaching, research…)

job\_nature\_id int(2) primary key auto\_increment,

job\_name varchar(40),

1. journals(journal\_id,journal\_name)

journal\_id int(3) primary key auto\_increment,

journal\_name varchar(40),

1. country(country\_id,country\_name)

country\_id int(3) primary key auto\_increment,

country\_name varchar(30),

Tables

1**)personal\_details**(app\_no, post\_applied, discipline , category, age, time\_applied, prev\_applied, martital\_status, firstname, lastname, gender, phone, email, present\_address, permanent\_address, specialization, dob, domicile, current\_pay, d\_o\_joining, remarks )

app\_no VARCHAR(11) PRIMARY KEY,

post\_applied INT(2) NOT NULL, --FK-- references post(post\_id)

discipline INT(1) NOT NULL, -- FK-- discipline(discipline\_id)

category INT(1) NOT NULL, -- FK-- category(cat\_id),

age INT(3) NOT NULL,

time\_applied TIMESTAMP default CURRENT\_TIMESTAMP,

prev\_applied boolean,

marital\_status boolean ,

firstname VARCHAR(30) ,

lastname VARCHAR(30) ,

gender INT(1) NOT NULL, -- FK -- gender(gender\_id)

phone INT(10) NOT NULL,

email VARCHAR(30) NOT NULL,

present\_address varchar(100) NOT NULL,

permanent\_address varchar(100),

specialization INT (3) NOT NULL, --- FK -- specialization(spe\_id)

dob DATE NOT NULL,

domicile boolean,

current\_pay INT(7),

d\_o\_joining DATE,

remarks TEXT,

*2)*  tenth

app\_no -- varchar(11), --FK-- personal\_details(app\_no),

board - int(1), --FK-- board(board\_id),

year\_of\_passing int(4),

passing\_state int(2), --FK-- states(state\_id)

city varchar(20),

marks float(4),

division varchar(2),

3) twelfth

app\_no varchar(11), --FK-- personal\_details(app\_no),

board int(1), -- FK -- board(board\_id)

year\_of\_passing int(4),

passing\_state int(2), --FK-- states(state\_id)

city varchar(20),

marks float(4),

istream int(2), -- FK -- istream(stream\_id)

4) bachelors

app\_no varchar(11), --FK-- personal\_details(app\_no),

college int(4), --FK-- college(college\_id)

university\_name varchar(30),

exam int(3), --FK--exams(exam\_id)

stream int(2), --FK—stream(stream\_id)

year\_of\_joining int(4),

year\_of\_passing int(4),

marks float(4)

5) masters(

app\_no varchar(11) --FK-- personal\_details(app\_no),

college int(4) --FK-- college(college\_id),

university\_name varchar(30),

exam int(3) --FK--exams(exam\_id),

stream int(2), --FK—stream(stream\_id)

year\_of\_joining int(4),

year\_of\_passing int(4),

marks float(4),

6) phd

app\_no varchar(11) --FK-- personal\_details(app\_no),

college int(4) --FK-- college(college\_id),

university\_name varchar(30),

under\_prof varchar(30),

specialization int(3) --FK-- specialization(spe\_id),

year\_of\_joining int(4),

thesis\_sub date,

remarks text,

7) prev\_emp

app\_no varchar(11) --FK-- personal\_details(app\_no),

org\_name varchar(30),

position varchar(30),

nature int(2) --FK-- job\_nature(job\_nature\_id),

join\_date date,

leave\_date date,

pay int(8),

remarks text,

8) training

app\_no varchar(11) --FK-- personal\_details(app\_no),

program\_name varchar(30),

org\_name varchar(30),

join\_date date,

leave\_date date,

location varchar(20),

remarks text,

9) projects

app\_no varchar(11) --FK-- personal\_details(app\_no),

title varchar(30),

guide varchar(30),

start\_date date not null,

complete\_date date,

link varchar(20),

sponsored boolean,

patent boolean,

remarks text,

10) publications

app\_no varchar(11) --FK-- personal\_details(app\_no),

paper\_id int(2) ,

title varchar(30) ,

journal int(3) --FK--- journals(journal\_id),

dated date,

refreed boolean,

conference varchar(30),

remarks text,

11) co\_authors

app\_no varchar(11) --FK-- personal\_details(app\_no),

paper\_id int(2),

co\_author varchar (40);

PRIMARY KEY (app\_no,paper\_id)

12)teaching\_exp

app\_no varchar(11) --FK-- personal\_details(app\_no),

post int(2) , --FK—post(post\_id)

join\_date date,

leave\_date date,

location varchar(20),

course int(3), --FK—specialization(spe\_id)

college\_id int(4), --FK-- college(college\_id)

lab boolean,

department int(2), --FK—stream(stream\_id)

remarks text,

13) reference

app\_no varchar(11) --FK-- personal\_details(app\_no),

mobile varchar(10),

state\_name int(2) --FK—states(state\_id),

email varchar (30),

pin varchar(6),

country int(3) –FK—country(country\_id),

address TEXT,

14) remarks

app\_no varchar(11) – FK—personal\_deails(app\_no),

remarks TEXT,

## Description

The index tables contain data that is gathered by the admin to avoid data redundancy and contains tables such as(with corresponding data examples):

Post – asst. prof, prof…etc

Discipline -- departments available in college(hss,cs, ece, humanities)

Category – SC,ST, OBC

Gender – male, female, others

Specialization – networks, dbms, algorithms..

Board – state, Central, ICSE

States – AP, Assam,……

Istream – MPC, BiPC,CEC(intermediate stream)

College – IITD, IIITG, ….

Exams – Mtech, BE/Btech, BA, MA….

Stream – ECE, CSE, Arts, Commerce

Job\_nature – teaching, research, private

Journals – IEEE,….

Country – India, Nepal..

These indexes can be utilized in the main tables as field IDs. If any the applicant has any other value not available in the above database, he/she has the option to send that value under ‘others’ option which is added to the database only after verification by the admin. The main tables are to be filled by the applicant through HTML forms.

The entire applicant data is captured through forms and is stored in the respective tables.

The admin can view the applicants details through his login portal and filter his search through various **filters,** making it easy for the admin to view appropriate applications.

Use Cases

There are 2 types of users – Admin, Applicant. The admin is required to enter his username and password to gain access to his portal whereas the applicant doesn’t need any authentication.

## Admin

* Verify new entries into index tables.
* View applicants and filter them according to the filters.
* Send an email to the applicant directly from the portal.

## Applicant

* Fill out his details.

Forms

## Admin

* Filter applicants using filters

## Booker

* Enter his details.

Queries

## Admin

* Find specific applicants satisfying search conditions.