

# **CAREER GUIDANCE**

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- SUBMITTED TO MS.PRAGYA MISHRA

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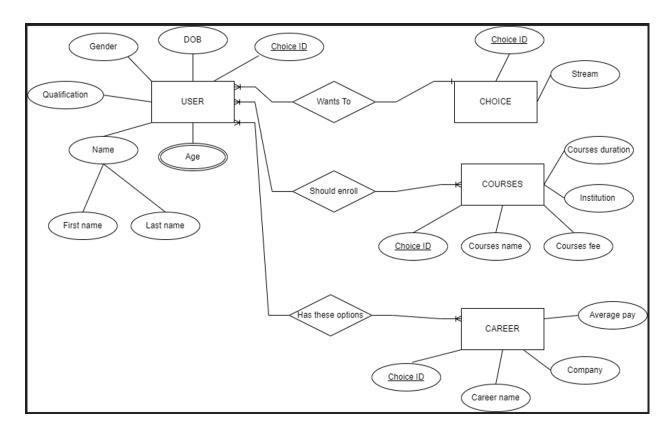
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#### **PROBLEM STATEMENT**

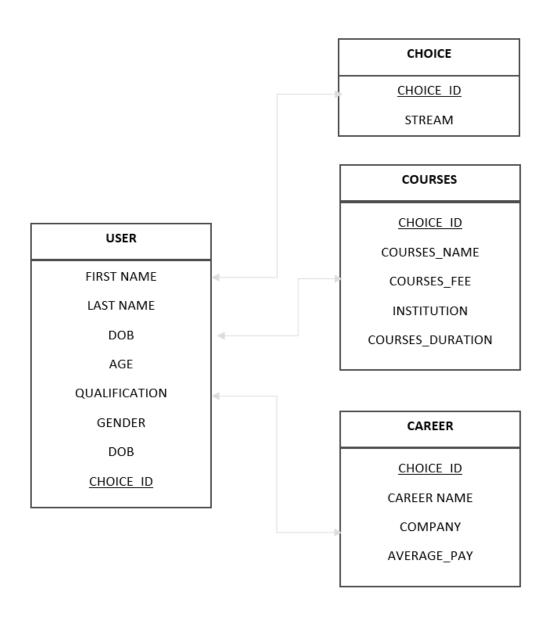
In order to comprehend the goal of demographic divide, each national of the country must be educated for employment, be it a person, a doctor, engineer or no matter to fulfill not solely the wants of our society however additionally the opposite societies elsewhere within the world. each student aspires to become a good person and self sustaining, however their passion and likings ar various. so as to cater to the aspirations of the scholars and facilitate them to aim high, they're needed to learn concerning the amount and sort of jobs this country has within the future years, further because the variety of business persons, entrepreneurs, and personnel altogether areas of employment. A national info of actual needs of personnel, category-wise by each Government and trade, the kind of instructional or ability qualification needed, nature of job, eligibility criteria, wage and perks, career development /progression in each field / sector of employment is desperately needed.

As every individual nurtures completely different needs to become in their life, there's a requirement for career dendrogram, in order that one will place forth a conjunctive efforts to become the simplest in his vocation and stand out in life instead of build many variety of mistakes of wrong choice in fact of education or career and repent later and prolong making an attempt various things losing his precious time/life.

## **ER DIAGRAM**



## **ER DIAGRAM TO TABLE**



## **NORMALIZED TABLES**

### **USERS**

USERS	USER_QUALIFICATION
USER_ID	USER_ID
FIRST_NAME	QUALIFICATION
LAST_NAME	PRIMARY KEY
QUALIFICATION	
GENDER	
DOB	
CHOICE_ID	

USER\_PHONE

USER\_ID

PHONE\_NUMBER

#### CHOICE

### COURSES

COURSES	CHOICE_COURSE
CORUSE_ID	CHOICE_ID
COURSE_NAME	COURSE_ID

COURSE\_INSTITUTION

COURSE\_ID
INSTITUTION

COURSE\_DETAILS

COURSE\_ID

COURSE\_DURATION

COURSE FEE

CAREER

CAREERS

CAREER\_ID
CAREER\_NAME

CHOICE\_CAREER

CHOICE\_ID

CAREER\_ID

CAREER\_DETAILS

CAREER\_ID

CAREER\_NAME

AVERAGE\_PAY

## PL/SQL CODES TO IMPLEMENT PROJECT

#### --stream table

```
CREATE TABLE `careergudiance`.`choice_stream` (
   `choice_id` INT NOT NULL,
   `stream` VARCHAR(45) NOT NULL,
   PRIMARY KEY (`choice_id`),
   UNIQUE INDEX `stream_UNIQUE` (`stream` ASC) VISIBLE);
```

#### --users

```
CREATE TABLE `careergudiance`.`users` (
 `user_id` INT NOT NULL,
 'first name' VARCHAR(45) NOT NULL,
 'last name' VARCHAR(45) NULL,
 `qualification` VARCHAR(45) NULL,
 'gender' VARCHAR(45) NOT NULL,
 'dob' DATE NOT NULL,
 `choice_id` INT NOT NULL,
PRIMARY KEY (`user_id`),
 UNIQUE INDEX `choice_id_UNIQUE` (`choice_id` ASC) VISIBLE,
 CONSTRAINT `choice_id`
 FOREIGN KEY (`choice_id`)
  REFERENCES `careergudiance`.`choice_stream` (`choice_id`)
  ON DELETE RESTRICT
  ON UPDATE RESTRICT);
ALTER TABLE `careergudiance`.`users`
DROP COLUMN `qualification`;
```

## --user\_qualification

```
CREATE TABLE `careergudiance`.`user_qualification` (
 `user_id` INT NOT NULL,
 `qualification` VARCHAR(45) NOT NULL,
 PRIMARY KEY (`user_id`),
 CONSTRAINT `user_qualification`
 FOREIGN KEY (`user_id`)
 REFERENCES `careergudiance`.`users` (`user_id`)
 ON DELETE RESTRICT
 ON UPDATE RESTRICT);
```

## --user phone number

```
CREATE TABLE `careergudiance`.`user_phone` (
  `user_id` INT NOT NULL,
  `phone_number` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`user_id`, `phone_number`),
  CONSTRAINT `user_phone`
  FOREIGN KEY (`user_id`)
  REFERENCES `careergudiance`.`users` (`user_id`)
  ON DELETE RESTRICT
  ON UPDATE RESTRICT);
ALTER TABLE `careergudiance`.`user_phone`
CHANGE COLUMN `phone_number` `phone_number` INT NOT NULL;
```

#### --courses

```
CREATE TABLE `careergudiance`.`courses` (
 `course_id` INT NOT NULL,
 `course_name` VARCHAR(45) NOT NULL,
 PRIMARY KEY ('course_id'));
--choice courses
CREATE TABLE `careergudiance`.`choice_course` (
 `choice_id` INT NOT NULL,
 `course_id` INT NOT NULL,
 PRIMARY KEY ('course_id', 'choice_id'),
 INDEX `choice_courses_idx` (`choice_id` ASC) VISIBLE,
 CONSTRAINT `choice_courses`
  FOREIGN KEY ('choice_id')
  REFERENCES `careergudiance`.`courses` (`course_id`)
  ON DELETE RESTRICT
  ON UPDATE RESTRICT);
ALTER TABLE `careergudiance`.`choice_course`
DROP FOREIGN KEY `choice_courses`;
ALTER TABLE `careergudiance`.`choice_course`
ADD INDEX `choice_courses_idx` (`choice_id` ASC) VISIBLE,
DROP INDEX `choice_courses_idx`;
ALTER TABLE `careergudiance`.`choice_course`
ADD CONSTRAINT 'choice courses'
 FOREIGN KEY ('choice id')
```

```
REFERENCES `careergudiance`.`choice_stream` (`choice_id`)
 ON DELETE RESTRICT
ON UPDATE RESTRICT.
ADD CONSTRAINT `courses_name`
 FOREIGN KEY (`course_id`)
 REFERENCES `careergudiance`.`courses` (`course_id`)
 ON DELETE RESTRICT
ON UPDATE RESTRICT:
--course institution
CREATE TABLE `careergudiance`.`course_institution` (
`course_id` INT NOT NULL,
`institution` VARCHAR(45) NOT NULL,
 PRIMARY KEY ('course_id'),
CONSTRAINT `course_institution`
  FOREIGN KEY (`course_id`)
  REFERENCES `careergudiance`.`courses` (`course_id`)
  ON DELETE RESTRICT
  ON UPDATE RESTRICT);
--course details
CREATE TABLE `careergudiance`.`course_details` (
`course_id` INT NOT NULL,
`course_duration(in hours)` INT NOT NULL,
 `course_fee` INT NULL,
 PRIMARY KEY ('course id'),
```

```
CONSTRAINT `course_coursedetails`
  FOREIGN KEY (`course_id`)
  REFERENCES `careergudiance`.`courses` (`course_id`)
  ON DELETE RESTRICT
  ON UPDATE RESTRICT);
--careers
CREATE TABLE `careergudiance`.`careers` (
 `career_id` INT NOT NULL,
 `career_name` VARCHAR(45) NOT NULL,
 PRIMARY KEY ('career_id'));
--choice career
CREATE TABLE `careergudiance`.`choice_career` (
 `choice_id` INT NOT NULL,
 `career_id` INT NOT NULL,
 PRIMARY KEY ('choice_id', 'career_id'),
 INDEX `career_careername_idx` (`career_id` ASC) VISIBLE,
 CONSTRAINT `choice_choicestream`
  FOREIGN KEY ('choice_id')
  REFERENCES `careergudiance`.`choice_stream` (`choice_id`)
  ON DELETE RESTRICT
  ON UPDATE RESTRICT,
 CONSTRAINT `career_careername`
  FOREIGN KEY ('career id')
  REFERENCES `careergudiance`.`careers` (`career_id`)
```

```
ON DELETE RESTRICT ON UPDATE RESTRICT);
```

## --career\_details

```
CREATE TABLE `careergudiance`.`career_details` (
`career_id` INT NOT NULL,
 `career_name` VARCHAR(45) NOT NULL,
 `average_pay` INT NOT NULL,
 PRIMARY KEY ('career_id', 'career_name'),
 CONSTRAINT `careerdetails careername`
  FOREIGN KEY ('career id')
  REFERENCES `careergudiance`.`careers` (`career_id`)
  ON DELETE RESTRICT
  ON UPDATE RESTRICT);
ALTER TABLE `careergudiance`.`user_phone`
CHANGE COLUMN 'phone_number' 'phone_number' BIGINT(10) NOT NULL;
ALTER TABLE `careergudiance`.`user_qualification`
DROP PRIMARY KEY,
ADD PRIMARY KEY ('user_id', 'qualification');
ALTER TABLE `careergudiance`.`career_details`
CHANGE COLUMN 'career_name' 'company' VARCHAR(45) NOT NULL;
ALTER TABLE `careergudiance`.`course_details`
CHANGE COLUMN `course_duration(in hours)` `course_duration` INT NOT NULL;
```

#### CODE TO CHECK PROJECT FUNCTIONALITY

```
set @id := 2;
```

#### -- Stream Chosen:

SELECT a.stream

FROM choice\_stream as a

INNER JOIN users as b ON a.choice\_id=b.choice\_id

WHERE b.user id = @id;

## -- Courses that you have to take:

SELECT c.course\_name

FROM users as a

INNER JOIN choice\_course as b ON a.choice\_id=b.choice\_id

INNER JOIN courses as c ON b.course\_id=c.course\_id

WHERE a.user\_id = @id;

#### -- Course details:

SELECT e.course\_name, c.course\_duration, c.course\_fee, d.institution
FROM users as a
INNER JOIN choice\_course as b ON a.choice\_id=b.choice\_id
INNER JOIN course\_details as c ON b.course\_id=c.course\_id
INNER JOIN course\_institution as d ON b.course\_id = d.course\_id
INNER JOIN courses as e ON b.course\_id = e.course\_id
WHERE a.user\_id = @id;

## -- Career Options:

SELECT e.career\_name

FROM users as a

INNER JOIN choice\_career as d ON a.choice\_id = d.choice\_id

INNER JOIN careers as e ON d.career\_id = e.career\_id

WHERE a.user\_id = @id;

### -- Career Details

SELECT c.career\_name, d.company, d.average\_pay
FROM users as a
INNER JOIN choice\_career as b ON a.choice\_id = b.choice\_id
INNER JOIN careers as c ON b.career\_id = c.career\_id
INNER JOIN career\_details as d ON b.career\_id = d.career\_id
WHERE a.user\_id = @id

## **OUTPUT SCREENSHOTS**

## TABLES CREATED IN SQL

#### **Users:**

	user_id	first_name	last_name	gender	dob	choice_id
•	1	Aniket	Idnani	M	2001-11-13	11
	2	Ujjayant	Kadian	M	2001-03-12	15
	3	Navdeep	Singh	M	1999-08-01	14
	4	Krish	Mehta	M	2002-07-29	51
	5	Jane	Doe	F	2001-10-10	23
	6	Jenny	Kale	F	1999-06-21	33

## User\_phone:

	user_id	phone_number
•	1	9999011131
	1	9999011132
	2	9999011110
	3	9999011991
	4	9999011117
	5	9999011118
	6	9999011999

## User\_qualification:

	user_id	qualification
•	1	BE(COE)
	2	Bsc(Math)
	3	BBA(Business Administration)
	3	MBA(Business Administration)
	4	BA(English)
	5	BBA(Business Administration)
	6	BA(English)

### Choice\_stream:

	choice_id	stream
•	41	Architecture
	11	Artificial Intelligence
	31	Arts
	21	Business Administration
	42	Civil Engineering
	14	Data Science
	22	Digital Marketing
	23	Financial Analysis
	12	Game Design
	15	Graphic Designing

### Choice\_course

	choice_id	course_id
•	11	1
	11	2
	11	3
	11	4
	12	21
	12	22
	13	5
	14	1
	14	2
	14	3

#### Courses:

	course_id	course_name
•	1	DSA
	2	Machine Learning
	3	Deep Learning
	4	AI for Business
	5	Cyber Security
	21	C#
	22	Unity Game
	23	Photoshop
	24	Figma
	31	Business Law

### Course\_details:

	course_id	course_duration	course_fee
•	1	40	10000
	2	38	20000
	3	30	10000
	4	20	5000
	5	40	20000
	21	20	10000
	22	40	10000
	23	15	5000
	24	30	10000
	31	30	10000

## Course\_institution:

	course_id	institution
•	1	Thapar
	2	Thapar
	3	Thapar
	4	Thapar
	5	Udemy
	21	Thapar
	22	Thapar
	23	Udemy
	24	Udemy
	31	Harvard Online School

### **Choice\_career:**

	choice_id	career_id
•	11	1
	14	1
	11	2
	11	3
	14	3
	12	4
	13	5
	15	6
	21	11
	23	11

#### **Careers:**

	choice_id	career_id
•	11	1
	14	1
	11	2
	11	3
	14	3
	12	4
	13	5
	15	6
	21	11
	23	11

### Career details:

	career_id	company	average_pay
•	1	Facebook	100000
	1	Google	100000
	2	Google	100000
	3	Amazon	100000
	4	Unity	50000
	5	Norton	100000
	6	Adobe	100000
	11	Infosys	100000
	11	Wipro	100000
	12	Infosys	100000

## Output results:

