**Database Design for MSU Admission portal for the Admission cum counselling into BSc-I at FoS, MSU**

**Entities**

Form No

Has PRN? Yes/ No

If Yes, PRN Varchar

Name (First name, last name and middle name separately)

Name as per H. Sc./ Qualifying Examination Marksheet

Mobile no.

E-mail address

Date of Birth

Nationality

Gender [Male/Female/ Transgender]

Father’s Name

Father’s Mobile no.

Father’s E-mail address

Mother’s Name

Mother’s Mobile no.

Mother’s E-mail address

Candidate’s Aadhar Number

Permanent address

Present address

Reservation Category [SC/ ST/ SEBC/ General]

If General, Is EWS? [Yes/No]

Special category

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Physically Handicapped [Yes/No]

Defence Person [Yes/No]

Kashmiri migrant [Yes/No]

Ward of MSU Employee [Yes/No]

Sports Person? [Yes/No]

If yes,

District Level Tournament/ Match:

Participated? [Yes/ No]

Won Medal? [Yes/ No]

State Level Tournament/ Match:

Participated? [Yes/ No]

Won Medal? [Yes/No]

National Level Tournament/ Match:

Participated? [Yes/ No]

Won Medal? [Yes/No]

International Level Tournament/ Match:

Participated? [Yes/ No]

Won Medal? [Yes/No]

**Details of Qualifying Examination (12th Std or equivalent)**

Name of the Examination Board

Examination Seat No.

Year of Passing

Number of Attempts for Passing\*: [1 - 10, > 10]

Location of school / Exam Centre (for Open Schools) from where 12th Std or equivalent is passed

Country

State / UT

District

SSC Marks

SSC Marks out of

HSC Group [PCM/ PCB/ PCMB]

Theory Total [PCM or PCB or Both]

Theory Total Out of [PCM or PCB or Both]

Practical Total [PCM or PCB or Both]

Practical Total Out of [PCM or PCB or Both]

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Name of Database

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MSUAdmission2020

Possible Tables

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Candidate\_Info

Educational\_Data

Sports\_Data

Special\_Category

Marks

Data Dictionary

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Candidate\_Info | | | | | | |
| Field Name | Data Type | Size | Domain | Constraint | Description | Example |
| Form No | Varchar2 |  |  | P |  |  |
| PRN | Integer |  |  | Unique |  |  |
| First name, | Varchar2 |  |  | Not Null |  |  |
| last name | Varchar2 |  |  |  |  |  |
| middle name | Varchar2 |  |  |  |  |  |
| Name as per H. Sc./ Qualifying Examination Marksheet | Varchar2 |  |  | Not Null |  |  |
| Mobile no. | Integer |  |  | Not Null |  |  |
| E-mail address | Varchar2 |  |  | Not Null |  |  |
| Date of Birth | Date |  |  | Not Null |  |  |
| Nationality | Char |  |  | Not Null |  |  |
| Gender | Char |  | Male/Female/ Transgender | Not Null |  |  |
| Father’s Name | Varchar2 |  |  | Not Null |  |  |
| Father’s Mobile no. | Integer |  |  | Not Null |  |  |
| Father’s E-mail address | Varchar2 |  |  |  |  |  |
| Mother’s Name | Varchar2 |  |  | Not Null |  |  |
| Mother’s Mobile no. | Integer |  |  |  |  |  |
| Mother’s E-mail address | Varchar2 |  |  |  |  |  |
| Candidate’s Aadhar Number | Integer |  |  |  |  |  |
| Permanent address | Text |  |  | Not Null |  |  |
| Present address | Text |  |  | Not Null |  |  |
| Reservation Category | Varchar2 |  | SC/ ST/ SEBC/ General/EWS | Not Null |  |  |
| Sports Person? | bool |  |  | Not Null |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| Educational\_Data | | | | | | |
| Field Name | Data Type | Size | Domain | Constraint | Description | Example |
| Form No | Varchar2 |  |  | F |  |  |
|  |  |  |  |  |  |  |
| Name of the Examination Board | Varchar2 |  |  | Not Null |  |  |
| Examination Seat No. | Varchar2 |  |  | Not Null |  |  |
| Year of Passing | Date/year |  |  | Not Null |  |  |
| Number of Attempts for Passing\*: [1 - 10, > 10] | integer |  |  | Not Null |  |  |
| Location of school / Exam Centre (for Open Schools) from where 12th Std or equivalent is passed | text |  |  | Not Null |  |  |
| Country | Varchar2 |  |  | Not Null |  |  |
| State / UT | Varchar2 |  |  | Not Null |  |  |
| District | Varchar2 |  |  | Not Null |  |  |
| SSC Marks | integer |  |  | Not Null |  |  |
| SSC Marks out of | integer |  |  | Not Null |  |  |
| HSC Group |  |  | [PCM/ PCB/ PCMB] | Not Null |  |  |
| Theory Total [PCM or PCB or Both] | integer |  |  | Not Null |  |  |
| Theory Total Out of [PCM or PCB or Both] | integer |  |  | Not Null |  |  |
| Practical Total [PCM or PCB or Both] | integer |  |  | Not Null |  |  |
| Practical Total Out of [PCM or PCB or Both] | integer |  |  | Not Null |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sports\_data | | | | | | |
| Field Name | Data Type | Size | Domain | Constraint | Description | Example |
| sprt\_Id |  |  |  | P |  |  |
| Form No | Varchar2 |  |  | F |  |  |
| Level of Tournament/ Match: |  |  | District/ State/ National |  |  |  |
| Participated? |  |  | [Yes/ No] | Not Null |  |  |
| Won Medal? |  |  | [Yes/ No] | Not Null |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Spcl\_Category | | | | | | |
| Field Name | Data Type | Size | Domain | Constraint | Description | Example |
| cat\_Id |  |  |  | P |  |  |
| Form No | Varchar2 |  |  | F |  |  |
| Physically Handicapped | boolean |  | [Yes/No] | Not Null |  |  |
| Defence Person | boolean |  | [Yes/No] | Not Null |  |  |
| Kashmiri migrant | boolean |  | [Yes/No] | Not Null |  |  |
| Ward of MSU Employee | boolean |  | [Yes/No] | Not Null |  |  |