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# Design

## ERD

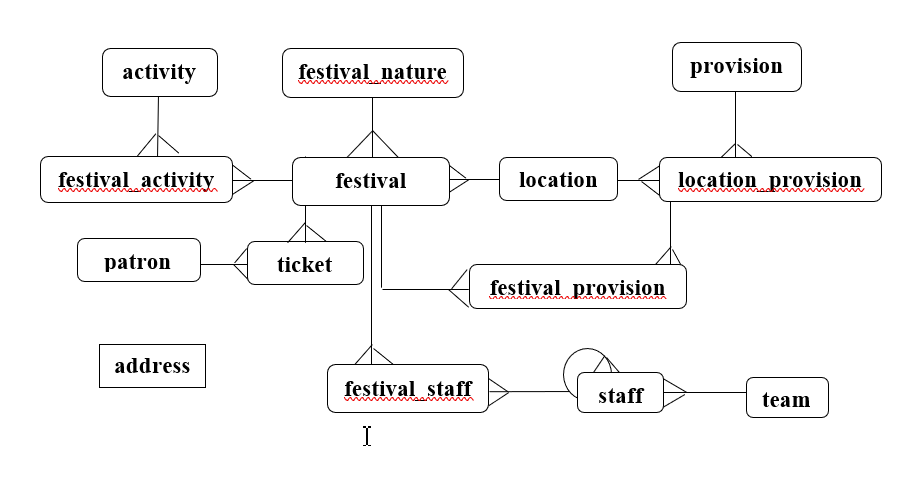


Fig 1.1: Given ERD

## Chosen ERD

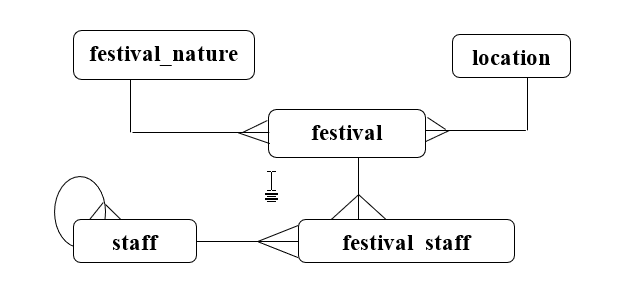


Fig 1.2: Chosen ERD

## Schema

Fig 1.3: Schema

## Table Specification

### Address\_type

Table 1.1:Address\_type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| street | VARCHAR2(25) |  |  |  |
| city | VARCHAR2(25) |  |  |  |
| country | VARCHAR2(25) |  |  |  |

### Contact\_type

Table 1.2: Contact\_type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| medium | VARCHAR2(25) |  |  |  |
| contact\_number | VARCHAR2(25) | UNIQUE |  |  |

### Activity\_type

Table 1.3: Activity\_type

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| activity\_name | VARCHAR2(25) |  |  |  |
| type | VARCHAR2(25) |  |  |  |

### Festival\_nature

Table 1.4: Festival\_natures table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| festival\_id | NUMBER (7) | pk\_festival\_natures |  | seq\_festival\_natures |
| nature\_name | VARCHAR2(25) | NOT NULL |  |  |

### Location

Table 1.5: Locations table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| location \_no | NUMBER (7) | pk\_locations |  | seq\_locations |
| address | REF address\_type |  |  |  |

### 

### Festival

Table 1.6: Festivals table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| location \_no | NUMBER (7) | fk\_f\_locations, pk\_festivals,  NOT NULL |  |  |
| festival\_id | VARCHAR2(50) | fk\_f\_festival\_natures  pk\_festivals,  NOT NULL |  |  |
| festival\_name | VARCHAR2(50) | UPPER, NOT NULL |  |  |
| acivities | activity\_varray\_type |  |  |  |
| venue | VARCHAR2(50) |  |  |  |
| festival\_start\_date | DATE |  |  |  |
| festival\_end\_date | DATE |  |  |  |

### Staff

Table 1.7: Staff table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| staff\_id | NUMBER (7) | pk\_staff |  | seq\_staff |
| reports\_to | NUMBER (7) | fk\_s\_staff |  |  |
| firstname | VARCHAR2(20) | UPPER |  |  |
| lastname | VARCHAR2(20) | UPPER |  |  |
| address | address\_type |  |  |  |
| contact | contact\_table\_type | NOT NULL |  |  |
| staff\_gender | CHAR (1) | CHECK IN(‘M’,’F’,’O’) | M |  |
| email | VARCHAR2(35) | UNIQUE |  |  |
| staff\_employed\_date | DATE |  | SYSDATE |  |
| username | VARCHAR2 |  |  |  |
| password | VARCHAR2 |  |  |  |
| salary | NUMBER (10,2) |  |  |  |
| dob | DATE |  |  |  |

### Festival\_staff

Table 1.8: Festival\_staff table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ATTRIBUTES** | **DATATYPE** | **CONSTRAINT** | **DEFAULT** | **SEQUENCE** |
| staff\_id | NUMBER (7) | fk\_fs\_staff,  pk\_festival\_staff |  |  |
| location \_no, | NUMBER (7) | fk\_fs\_festivals,  pk\_festival\_staff |  |  |
| festival\_id | NUMBER (7) | fk\_fs\_festivals,  pk\_festival\_staff |  |  |