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# **DATABASE DESIGN DOCUMENT**

## **TABLE NAME - COUNTRY TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **KEY** | **DEFAULT** | **DESCRIPTION** |
| ISDCODE | VARCHAR2(5) | UNIQUE | NOT NULL | ISD CODE OF COUNTRY |
| ISOCODE | VARCHAR2(3) | PRIMARY | NOT NULL | ISO CODE OF COUNTRY |
| COUNTRYNAME | VARCHAR2(56) | UNIQUE | NOT NULL | NAME OF COUNTRY |

### **DATA FILE OF COUNTRY TABLE**



### **SCRIPT FOR CREATE TABLE COUNTRY**

CREATE TABLE COUNTRY (ISDCODE VARCHAR2 (5) NOT NULL, ISOCODE VARCHAR2 (3), COUNTRYNAME VARCHAR2 (56), PRIMARY KEY (ISOCODE));

**SCRIPT FOR INSERT RECORD INTO COUNTRY TABLE**

INSERT INTO COUNTRY VALUES ('+93','Afg','Afganistan');

## **TABLE NAME - EMPLOYEE TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **KEY** | **DEFAULT** | **DESCRIPTION** |
| EMPID | NUMBER | PRIMARY KEY | NOT NULL | PRIMARY KEY FOR EMPLOYEE TABLE, AUTO INCREMENT |
| PERSONAL\_INFO\_ID | NUMBER | FOREIGN KEY | NOT NULL | REFERENCING TO PERSONAL\_INFORMATIONS.PERSONAL\_INFO\_ID |
| FAMILYID | NUMBER | FOREIGN KEY | NOT NULL | REFERENCING TO FAMILY.FAMILYID |
| ADDRESSID | NUMBER | FOREIGN KEY | NOT NULL | REFERNCING TO ADDRESSES.ADDRESSID |
| SALUTATION | VARCHAR2 (5) |  | NOT NULL | SALUTATION SUCH THAT MR. DR. PROF. |
| FIRSTNAME | VARCHAR2(30) |  | NOT NULL | FIRST NAME OF EMPLOYEE |
| MIDDLENAME | VARCHAR2(20) |  | NULL | MIDDLE NAME OF EMPLOYEE |
| LASTNAME | VARCHAR2(30) |  | NOT NULL | LAST NAME OF EMPLOYEE |
| DOJ | DATE |  | NOT NULL | JOINING DATE OF EMPLOYEE |
| MANAGERNAME | VARCHAR2(60) |  | NOT NULL | MANAGER NAME OF EMPLOYEE |
| PROJECTID | NUMBER | FOREIGN KEY | NOT NULL | REFERENCING TO PROJECT.PROJECTID |
| EMAIL | VARCHAR2(60) |  | NOT NULL | EMAIL OF EMPLOYEE |
| ISOCODE | VARCHAR2(6) | FOREIGN KEY | NOT NULL | REFERENCING TO COUNTRY.ISOCODE |
| MOBILENUMBER | NUMBER(10) |  | NOT NULL | MOBILE NO OF EMPLOYEE |
| ALTERNATEMOBILENUMBER | NUMBER(10) |  | NULL | ALTERNATE MOBILE NO OF EMPLOYEE |
| PASSWORD | VARCHAR2(12) |  | NOT NULL | TO STORE PASSWORD OF THE EMPLOYEE |
| CREATIONDATE | VARCHAR2 (25) |  | NOT NULL | TO STORE THE RECORD CREATION DATE |
| LASTMODIFIED\_DATE | VARCHAR2 (25) |  | NOT NULL | TO STORE THE LAST UPDATED DATE OF RECORDS |
| PROJECTNAME | VARCHAR2 (70) |  | NOT NULL | TO STORE THE PROJECT NAME. |
| PROJECTIDS | VARCHAR2 (16) |  | NOT NULL | TO STORE THE PROJECT NAME. |

**DATA FILE OF EMPLOYEE TABLE**

****

### **SCRIPT FOR CREATE TABLE EMPLOYEE**

### CREATE TABLE EMPLOYEE (EMPID NUMBER NOT NULL, PERSONAL\_INFO\_ID NUMBER, FAMILYID NUMBER, ADDRESSID NUMBER, SALUTATION VARCHAR2 (5) NOT NULL,

### FIRSTNAME VARCHAR2(30) NOT NULL, MIDDLENAME VARCHAR2(20),LASTNAME VARCHAR2(30),DOJ DATE,MANAGERNAME VARCHAR2(60),PROJECTID NUMBER,EMAIL VARCHAR(60) UNIQUE,

### ISOCODE VARCHAR2(3),MOBILENUMBER NUMBER(10) UNIQUE,ALTERNATEMOBILENUMBER NUMBER(10),PASSWORD VARCHAR2(12) UNIQUE, PRIMARY KEY(EMPID),FOREIGN KEY(PERSONAL\_INFO\_ID)

### REFERENCING PERSONAL\_INFORMATIONS (PERSONAL\_INFO\_ID), FOREIGN KEY (FAMILYID) REFERENCING FAMILY (FAMILYID), FOREIGN KEY (ADDRESSID) REFERENCING ADDRESSES (ADDRESSID),

### FOREIGN KEY (PROJECTID) REFERENCING PROJECT (PROJECTID), FOREIGN KEY (ISOCODE) REFERENCING COUNTRY (ISOCODE));

### 

### **SCRIPT FOR CREATE SEQUENCE OF EMPLOYEE TABLE**

CREATE SEQUENCE EMPLOYEESEQUENCE

START WITH 1

INCREMENT BY 1

CACHE 100;

### **SCRIPT FOR INSERT RECORD INTO EMPLOYEE TABLE**

INSERT INTO EMPLOYEE VALUES (EMPLOYEESEQUENCE.NEXTVAL,1,1,1,'Mr','Rohit','Kumar','Rathod','05/MAY/2016','Ravi',101,'rohit@gmail.com','Afg',3456543456,1232123454);

### **SCRIPT FOR ALTER EMPLOYEE TABLE**

ALTER TABLE EMPLOYEE ADD(CREATIONDATE VARCHAR2 (25), LASTMODIFIED\_DATE VARCHAR2(25));

### **SCRIPT FOR ALTER EMPLOYEE TABLE**

ALTER TABLE EMPLOYEE ADD PROJECTNAME VARCHAR2 (70);

### **SCRIPT FOR ALTER EMPLOYEE TABLE**

ALTER TABLE EMPLOYEE ADD PROJECTIDS VARCHAR2 (16);

### **SCRIPT FOR INSERT RECORD INTO EMPLOYEE TABLE AFTER ALTER**

INSERT INTO EMPLOYEE (EMPID,SALUTATION,FIRSTNAME,MIDDLENAME,LASTNAME,EMAIL,MOBILENUMBER,ALTERNATEMOBILENUMBER,MANAGERNAME,DOJ,PASSWORD,CREATIONDATE,LASTMODIFIED\_DATE,PROJECTIDS)

VALUES(EMPLOYEESEQUENCE.NEXTVAL,'Mr','Rohit','Kumar','Rathod','rohit@gmail.com',3456543456,1232123454,'Ravi','12-june-2021','shek@123','22-MAY-2021','22-MAY-2021','103,104');

## **TABLE NAME – FAMILY TABLE**

## 

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN NAME** | **DATA TYPE** | **KEY** | **DEFAULT** | **DESCRIPTION** |
| FAMILYID | NUMBER | PRIMARY | NOT NULL | PRIMARY KEY FOR FAMILY TABLE AUTO INCREMENT |
| FATHERNAME | VARCHAR2(50) |  | NOT NULL | FATHER NAME OF EMPLOYEE |
| MOTHERNAME | VARCHAR2(50) |  | NOT NULL | MOTHER NAME OF EMPLOYEE |
| SPOUSENAME | VARCHAR2(50) |  | NULL | SPOUSE NAME OF EMPLOYEE |

### **DATA OF FAMILY TABLE**



### **SCRIPT FOR CREATE TABLE FAMILY**

CREATE TABLE FAMILY(FAMILYID NUMBER NOT NULL,FATHERNAME VARCHAR2(50) NOT NULL,MOTHERNAME VARCHAR(50) NOT NULL,SPOUSE VARCAHR2(50) , PRIMARY KEY(FAMILYID));

### **SCRIPT FOR CREATE SEQUENCE FOR FAMILY TABLE**

CREATE SEQUENCE FAMILYSEQUENCE

START WITH 1

INCREMENT BY 1

CACHE 100;

### **SCRIPT FOR INSERT RECORD INTO FAMILY TABLE**

INSERT INTO FAMILY VALUES (FAMILYSEQUENCE.NEXTVAL,'MOHAN','SAVITA','RASHMI');

## **TABLE NAME - PERSONAL\_INFORMATIONS TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN NAME** | **TYPE** | **KEY** | **DEFAULT** | **DESCRIPTION** |
| PERSONAL\_INFO\_ID | NUMBER | PRIMARY  KEY | NOT NULL | THIS ID GIVE THE INFORMATION UNIQUELY ABOUT PERSONAL INFORMATION OF THE EMPLOYEE AND THIS ID AUTO INCREMENTED SO PERSONAL \_INFO\_ID WILL GENERATE IN A SEQUENCE |
| DOB | DATE |  | NOT NULL | THIS COLUMN PROVIDE DATE OF BIRTH DETAILS OF THE EMPLOYEE |
| SEX | VARCHAR2(06) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT GENDER OF THE EMPLOYEE |
| PANNUMBER | VARCHAR2(10) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT PAN NUMBER OF THE EMPLOYEE |
| AADHARNUMBER | NUMBER(12) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT AADHAR NUMBER OF THE EMPLOYEE |
| PASSPORTNUMBER | VARCHAR2(8) |  | NULL | THIS COLUMN GIVE THE INFORMATION ABOUT THE PASSPORT NUMBER OF THE EMPLOYEE |
| BANK\_ACCOUNT\_NUMBER | NUMBER(16) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT THE BANK\_ACCOUNT\_NUMBER OF THE EMPLOYEE |
| NATIONALITY | VARCHAR2(10) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT THE NATIONALITY DETAILS OF THE EMPLOYEE |
| MARITALSTATUS | VARCHAR2(8) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT THE EMPLOYEE MARITAL STATUS |

### **DATA FILE OF PERSONAL\_INFORMATIONS TABLE**

****

### **DETAIL OF TABLE PERSONAL\_INFORMATIONS**

In the PERSONAL\_INFORMATIONS table have PERSONAL\_INFO\_ID Column with PRIMARY KEY. And EMPID column is FOREIGN KEY which make the relation between EMPLOYEE table and PERSONAL\_INDORMATIONS table in that table have 9 column.

### **SCRIPT FOR CREATE TABLE PERSONAL\_INFORMATIONS**

CREATE TABLE PERSONAL\_INFORMATIONS(PERSONAL\_INFO\_ID NUMBER,DOB DATE NOT NULL,SEX VARCHAR2(06) NOT NULL,PANNUMBER VARCHAR2(10) NOT NULL, AADHARNUMBER NUMBER(12) NOT NULL,PASSPORTNUMBER VARCHAR2(8),BANK\_ACCOUNT\_NUMBER NUMBER(16) NOT NULL,NATIONALITY VARCHAR2(10) NOT NULL,MARITALSTATUS VARCHAR2(8) NOT NULL, CONSTRAINT PK\_PERSONAL\_INFORMATIONS PRIMARY KEY (PERSONAL\_INFO\_ID));

### **SCRIPT FOR CREATING SEQUENCE OF TABLE PERSONAL\_INFORMATIONS**

CREATE SEQUENCE PERSONAL\_INFORMATIONS\_SEQ

START WITH 1

INCREMENT BY 1

CACHE 100;

### **SCRIPT FOR INSERT RECORD INTO PERSONAL\_INFORMATIONS**

INSERT INTO PERSONAL\_INFORMATIONS VALUES (PERSONAL\_INFORMATIONS\_SEQ.NEXTVAL,'8-JUNE-1993','MALE','AAECC1448C', 752209323514,'N1242843', 923232297237,'Indian','Single');

## **TABLE NAME – ADDRESSES TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN NAME** | **TYPE** | **KEY** | **DEFAULT** | **DESCRIPTION** |
| ADDRESSID | NUMBER | PRIMARY KEY | NOT NULL | THIS COLUMN GIVE THE INFORMATION UNIQUELY ABOUT EMPLOYEE ADDRESS, THIS ADDRESSID IS AUTO INCREMENTED SO ADDRESSID WILL AUTOMATICALLY GENERATE IN SEQUENCE. |
| STREETADDRESS | VARCHAR2(100) |  | NOT NULL | THIS COLUMN PROVIDE STRRET ADDRESS ,WHAT GIVEN IN ADDRESS OF THE EMPLOYEE ADDRESS |
| STREETNUMBER | NUMBER |  | NULL | THIS COLUMN GIVE THE INFORMATION ABOUT STREET NUMBER WHAT GIVEN IN THE ADDRESS OF THE EMPLOYEE ADDRESS |
| CITY | VARCHAR2(15) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT EMPLOYEE’S CITY |
| STATE | VARCHAR2(20) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT EMPLOYEE STATE FROM WHERE HE STAYING |
| PINCODE | NUMBER(6) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT THE PIN CODE WHAT GIVEN IN EMPLOYEE ADDRESS |
| COUNTRY | VARCHAR2(54) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT COUNTRY DETAILS OF THE EMPLOYEE |
| ADDRESSTYPE | NUMBER(1) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT THE ADDRESS TYPE, IT MAY BE PERMANENT ADDRESS OR COMMUNICATION ADDRESS OF THE EMPLOYEE |

### **DATA OF ADDRESSES TABLE**

****

### **DETAILS OF ADDRESSES TABLE**

In the ADDRESSES table have ADDRESSID Column with PRIMARY KEY and This Column in EMPLOYEE Table with FOREIGN KEY to make the relation with EMPLOYEES table and ADDRESSES table. In that table have 8 column.

### **SCRIPT FOR CREATE ADDRESSES TABLE**

CREATE TABLE ADDRESSES(ADDRESSID NUMBER, STREETADDRESS VARCHAR2(100) NOT NULL, STREETNUMBER NUMBER,CITY VARCHAR2(15) NOT NULL,STATE VARCHAR2(20) NOT NULL,PINCODE NUMBER(6) NOT NULL,COUNTRY VARCHAR2(54) NOT NULL,ADDRESSTYPE NUMBER(1) NOT NULL, CONSTRAINT PK\_ADDRESSES PRIMARY KEY (ADDRESSID));

**SCRIPT FOR MODIFY COLUMN NAME IN ADDRESSES TABLE**

ALTER TABLE ADDRESSES RENAME COLUMN STREETADDRESS TO ADDRESSLINE1;

**SCRIPT FOR MODIFY COLUMN SIZE IN ADDRESSES TABLE**

ALTER TABLE ADDRESSES MODIFY ADDRESSLINE1 VARCHAR2 (255);

### **SCRIPT FOR CREATE SEQUENCE OF ADDRESSES TABLE**

CREATE SEQUENCE ADDRESSES\_SEQ

START WITH 1

INCREMENT BY 1

CACHE 100;

### **SCRIPT FOR ALTER ADDRESSES TABLE**

ALTER TABLE ADDRESSES ADD HOUSENUMBER VARCHAR2 (8);

### **SCRIPT FOR INSERT RECORD INTO ADDRESSES TABLE**

INSERT INTO ADDRESSES VALUES (ADDRESSES\_SEQ.NEXTVAL,'GACHIPAWLI STREET', 102,'HYDERABAD','TELANGANA', 500011,'INDIA', 0, 'P11');

### **RELATIONSHIP BETWEEN PERSONAL\_INFORMATIONS TABLE AND EMPLOYEES Table**

ONE TO ONE RELATIONSHIP BETWEEN PERSONAL\_INFORMATIONS TABLE AND EMPLOYEES TABLE BECAUSE 1 EMPLOYEE CAN HAVE A PERSONAL INFORMATION

## **TABLE NAME – PROJECT TABLE**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN NAME** | **TYPE** | **KEY** | **DEFAULT** | **DESCRIPTION** |
| PROJECTID | NUMBER | PRIMARY  KEY | NOT NULL | THISPROJECTID IS A UNIQUE ID WHICH IS REPRESENT THE PROJECT IDENTIFICATION , EVERY PROJECT HAS DIFFERENT PROJECTID |
| PROJECTNAME | VARCHAR2(50) | UNIQUE | NOT NULL | THISPROJECTNAME IS A NAME WHICH IS REPRESENT THE PROJECT NAME IDENTIFICATION , EVERY PROJECT HAS DIFFERENT PROJECTNAME |
| PROJECT\_DESCRIPTION | VARCHAR2(100) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT PROJECT DESCRIPTIONS |
| STARTDATE | DATE |  |  | THIS COLUMN GIVE THE INFORMATION ABOUT PROJECT START DATE |
| ENDDATE | DATE |  |  | THIS COLUMN GIVE THE INFORMATION ABOUT PROJECT END DATE |

### **DATA FILE OF PROJECT TABLE**

****

### **DETAILS OF PROJECT TABLE**

IN THE PROJECT TABLE HAVE PROJECTID COLUMN WITH PRIMARY KEY AND THIS COLUMN IN EMPLOYEE TABLE WITH FOREIGN KEY TO MAKE THE RELATION WITH EMPLOYEES TABLE AND PROJECT TABLE. IN THAT TABLE HAVE 5 COLUMN.

### **SCRIPT FOR CREATE PROJECT TABLE**

CREATE TABLE PROJECT (PROJECTID NUMBER, PROJECTNAME VARCHAR2 (50) NOT NULL, PROJECT\_DESCRIPTIONS VARCHAR2 (100) NOT NULL, CONSTRAINT PK\_PROJECT PRIMARY KEY (PROJECTID));

### **SCRIPT FOR ALTER PROJECT TABLE**

ALTER TABLE PROJECT ADD (STARTDATE DATE, ENDDATE DATE);

### **SCRIPT FOR INSERT RECORD INTO PROJECT TABLE**

INSERT INTO PROJECT VALUES (101,'AIRLINE RESERVATION SYSTEM', 'THIS PROJECT IS USEFUL TO MANAGE AIRLINE TRAFFIC SYSTEM', '12-MARCH-2018', '12-MAY-2019');

### **SCRIPT FOR ADD FOREIGN KEY EMPID COLUMN RECORD INTO PROJECT TABLE**

ALTER TABLE PROJECT

ADD EMPID NUMBER(10) CONSTRAINT FK\_EMPID references EMPLOYEE(EMPID);

## **TABLE NAME – MANAGER**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **COLUMN NAME** | **TYPE** | **KEY** | **DEFAULT** | **DESCRIPTION** |
| MANAGERNAME | VARCHAR2(20) |  | NOT NULL | THIS COLUMN GIVE THE INFORMATION ABOUT MANAGER NAME |

### **DETAILS OF PROJECT TABLE**

IN THE MANAGER TABLE HAVE MANAGERNAME COLUMN WITH NOT NULL AND WITH VARCHAR2 DATATYPE WITH 20

### **SCRIPT FOR CREATE MANAGER TABLE**

CREATE TABLE MANAGER (MANAGERNAME VARCHAR2 (20) NOT NULL);

### **SCRIPT FOR INSERT RECORD INTO MANAGER TABLE**

INSERT INTO MANAGER VALUES ('Girish Verma');

INSERT INTO MANAGER VALUES('Mukes Sinha');