**1//**

**create table supplier(**

**product\_id number(5),**

**supplier\_name varchar2(20)**

**)**

**ALTER TABLE supplier**

**ADD CONSTRAINT sup\_id\_pk PRIMARY KEY(product\_id)**

**2//**

**create table Branch\_address(**

**br\_id number(5),**

**branch\_country varchar2(20),**

**branch\_location varchar2(20)**

**)**

**ALTER TABLE Branch\_address**

**ADD CONSTRAINT br\_id\_pk PRIMARY KEY(br\_id)**

**3//**

**create table Product\_branch(**

**pb\_id number(5),**

**product\_id number(5),**

**branch\_id number(5)**

**)**

**ALTER TABLE Product\_branch**

**ADD CONSTRAINT pb\_id\_pk PRIMARY KEY(pb\_id)**

**ALTER TABLE Product\_branch**

**ADD CONSTRAINT pb\_id\_fk FOREIGN KEY (product\_id)**

**REFERENCES Supplier(product\_id)**

**ALTER TABLE Product\_branch**

**ADD CONSTRAINT pb2\_id\_fk FOREIGN KEY (branch\_id)**

**REFERENCES Branch(branch\_id)**

**4//**

**create table Branch(**

**branch\_id number(5),**

**branch\_name varchar2(20),**

**br\_id number(5),**

**manager\_id number(5)**

**)**

**ALTER TABLE Branch**

**ADD CONSTRAINT branch\_id\_pk PRIMARY KEY(branch\_id)**

**ALTER TABLE Branch**

**ADD CONSTRAINT br\_id\_fk FOREIGN KEY (br\_id)**

**REFERENCES Branch\_address(br\_id)**

**ALTER TABLE Branch**

**ADD CONSTRAINT br2\_id\_fk FOREIGN KEY (manager\_id)**

**REFERENCES manager(manager\_id)**

**5//**

**create table Manager(**

**manager\_id number(5),**

**manager\_name varchar2(20),**

**start\_date date**

**)**

**ALTER TABLE MANAGER modify (manager\_name not null)**

**ALTER TABLE Manager**

**ADD CONSTRAINT manager\_id\_pk PRIMARY KEY(manager\_id)**

**6//**

**create table Mail(**

**manager\_id number(5),**

**manager\_email varchar2(20)**

**)**

**ALTER TABLE Mail**

**ADD CONSTRAINT mail\_id\_pk PRIMARY KEY(manager\_id,manager\_email)**

**ALTER TABLE Mail**

**ADD CONSTRAINT mail\_id\_fk FOREIGN KEY (manager\_id)**

**REFERENCES manager(manager\_id)**

**7//**

**create table Employee(**

**employee\_id number(5),**

**employee\_name varchar2(20),**

**employee\_birth\_date date,**

**employee\_gender varchar2(3),**

**employee\_salary number(5),**

**branch\_id number(5)**

**)**

**ALTER TABLE Employee**

**ADD CONSTRAINT employee\_id\_pk PRIMARY KEY(employee\_id)**

**ALTER TABLE Employee**

**ADD CONSTRAINT emp\_id\_fk FOREIGN KEY (branch\_id)**

**REFERENCES Branch(branch\_id)**

**ALTER TABLE Employee ADD CONSTRAINT ech check(employee\_gender='M' or employee\_gender='F')**

**8//**

**create table Employee\_address(**

**employee\_id number(5),**

**employee\_address varchar2(20)**

**)**

**ALTER TABLE Employee\_address**

**ADD CONSTRAINT emp\_add\_id\_pk PRIMARY KEY(employee\_id,employee\_address)**

**ALTER TABLE Employee\_address**

**ADD CONSTRAINT emp\_add\_id\_fk FOREIGN KEY (employee\_id)**

**REFERENCES Employee(employee\_id)**

**9//**

**create table Users(**

**user\_id number(5),**

**user\_name varchar2(20)**

**)**

**ALTER TABLE Users**

**ADD CONSTRAINT user\_id\_pk PRIMARY KEY(user\_id)**

**10//**

**create table Employee\_user(**

**eu\_id\_pk number(5),**

**employee\_id number(5),**

**user\_id number(5)**

**)**

**ALTER TABLE Employee\_user**

**ADD CONSTRAINT emp\_user\_id\_pk PRIMARY KEY(eu\_id\_pk)**

**ALTER TABLE Employee\_user**

**ADD CONSTRAINT emp\_user\_id\_fk FOREIGN KEY (employee\_id)**

**REFERENCES Employee(employee\_id)**

**ALTER TABLE Employee\_user**

**ADD CONSTRAINT emp\_user\_id\_fk2 FOREIGN KEY (user\_id)**

**REFERENCES Users(user\_id)**

**1//**

**create sequence sup\_seq**

**start with 101**

**increment by 1**

**maxvalue 110**

**nocycle**

**nocache**

**insert into supplier(product\_id, supplier\_name) values(sup\_seq.nextval,'Octa')**

**insert into supplier(product\_id, supplier\_name) values(sup\_seq.nextval,'Adidas')**

**insert into supplier(product\_id, supplier\_name) values(sup\_seq.nextval,'Nike')**

**insert into supplier(product\_id, supplier\_name) values(sup\_seq.nextval,'Puma')**

**insert into supplier(product\_id, supplier\_name) values(sup\_seq.nextval,'Bata')**

**2//**

**insert into Branch\_address values(201,'Bangladesh','Dhaka')**

**insert into Branch\_address values(202,'USA','Las Vegas')**

**insert into Branch\_address values(203,'UK','London')**

**insert into Branch\_address values(204,'France','Paris')**

**insert into Branch\_address values(205,'Germany','Berlin')**

**5//**

**insert into Manager values(301,'Mahmud Hossain Tushar', to\_date('17-01-2021','dd-mm-yyyy'))**

**insert into Manager values(302,'Ashiqul Islam', to\_date('17-12-2020','dd-mm-yyyy'))**

**insert into Manager values(303,'MD. Rifat Islam Deep', to\_date('07-02-2021','dd-mm-yyyy'))**

**insert into Manager values(304,'Foyjunnesa Mishkat', to\_date('13-10-2019','dd-mm-yyyy'))**

**insert into Manager values(305,'Mohammad Rizwan', to\_date('14-11-2019','dd-mm-yyyy'))**

**4//**

**insert into Branch values(601,'Dhaka branch',201,301)**

**insert into Branch values(602,'Las Vegas branch',202,302)**

**insert into Branch values(603,'London branch',203,303)**

**insert into Branch values(604,'Paris branch',204,304)**

**insert into Branch values(605,'Berlin branch',205,305)**

**3//**

**insert into Product\_branch values(501,101,601)**

**insert into Product\_branch values(502,102,602)**

**insert into Product\_branch values(503,103,603)**

**insert into Product\_branch values(504,104,604)**

**insert into Product\_branch values(505,105,605)**

**6//**

**insert into Mail values(301,'Tushar@gmail.com')**

**insert into Mail values(302,'Ashiqul@gmail.com')**

**insert into Mail values(303,'Deep@gmail.com')**

**insert into Mail values(304,'Mishkat@gmail.com')**

**insert into Mail values(305,'Rizwan@gmail.com')**

**7//**

**insert into Employee values(401,'Sakib',to\_date('17-01-2000','dd-mm-yyyy'),'M',10000, 601)**

**insert into Employee values(402,'Rahim',to\_date('07-02-2001','dd-mm-yyyy'),'M',15000, 602)**

**insert into Employee values(403,'Riha',to\_date('10-05-2003','dd-mm-yyyy'),'F',12000, 603)**

**insert into Employee values(404,'Anika',to\_date('03-05-1999','dd-mm-yyyy'),'F',10000, 604)**

**insert into Employee values(405,'Neon',to\_date('04-07-2000','dd-mm-yyyy'),'F',10000, 605)**

**8//**

**insert into Employee\_address values(401,'Dhaka')**

**insert into Employee\_address values(402,'Las Vegas')**

**insert into Employee\_address values(403, 'London')**

**insert into Employee\_address values(404,'Paris')**

**insert into Employee\_address values(405,'Berlin')**

**9//**

**insert into Users values(801,'Leonardo')**

**insert into Users values(802,'Hanks')**

**insert into Users values(803,'Smith')**

**insert into Users values(804,'Stark')**

**insert into Users values(805,'Jackman')**

**10//**

**insert into Employee\_user values(901,401,801)**

**insert into Employee\_user values(902,402,802)**

**insert into Employee\_user values(903,403,803)**

**insert into Employee\_user values(904,404,804)**

**insert into Employee\_user values(905,405,805)**

**SELECT \* FROM Employee\_user**

**Select \***

**from all\_constraints**

**where table\_name='EMPLOYEE\_USER'**

**select \***

**from user\_sequences**

**///Important///**

1. **Desc supplier**
2. **Desc Branch\_address**
3. **Desc Product\_branch**
4. **Desc Branch**
5. **Desc Manager**
6. **Desc Mail**
7. **Desc Employee**
8. **Desc Employee\_addr**
9. **Desc Users**
10. **Desc Employee\_user**
11. **Select \* from supplier**
12. **Select \* from branch\_address**
13. **Select \* from Product\_branch**
14. **Select \* from Branch**
15. **Select \* from Manager**
16. **Select \* from Mail**
17. **Select \* from Employee**
18. **Select \* from Employee\_addr**
19. **Select \* from Users**
20. **Select \* from Employee\_user**
21. **Select \* from all\_constraints where table\_name='MANAGER'**
22. **Select \* from all\_constraints where table\_name='EMPLOYEE'**
23. **Select \* from user\_sequences**