**A Sample Database**

**(RDBMS APP: Order Entry System)**

**Table 1: SalesPeople**

**Snum** is Primary key to be implemented as Table Level Constraint.

**Sname** is Unique constraint to be implemented as column level constraint .

|  |  |  |  |
| --- | --- | --- | --- |
| **Snum** | **Sname** | **City** | **Comm** |
| 1001 | Peel | London | .12 |
| 1002 | Serres | Sanjose | .13 |
| 1004 | Motika | Landon | .11 |
| 1007 | Rifkin | Barcelona | .15 |
| 1003 | Axelrod | Newyork | .10 |

**Table 2: Customers**

**Cnum** is Primary Key to be implemented as column level constraint.

**City** has not null constraint .

**Snum** is foreign key constraint to be implemented as table level refers Snum column of SalesPeople table.

|  |  |  |  |
| --- | --- | --- | --- |
| **Cnum** | **Cname** | **City** | **Snum** |
| 2001 | Hoffman | London | 1001 |
| 2002 | Giovanni | Rome | 1003 |
| 2003 | Liu | Sanjose | 1002 |
| 2004 | Grass | Berlin | 1002 |
| 2006 | Clemens | London | 1001 |
| 2008 | Cisneros | Sanjose | 1007 |
| 2007 | Pereira | Rome | 1004 |

**Table 3: Orders**

**Onum** is Primary key to be implemented as table level.

**Cnum** is foreign key to be implemented as column level constraints refers to Cnum column of Customers table.

**Snum** is foreign key constraint to be implemented as table level constraints refers Snum column of SalesPeople table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Onum** | **Amt** | **Odate** | **Cnum** | **Snum** |
| 3001 | 18.69 | 3-10-1990 | 2008 | 1007 |
| 3003 | 767.19 | 3-10-1990 | 2001 | 1001 |
| 3002 | 1900.10 | 3-10-1990 | 2007 | 1004 |
| 3005 | 5160.45 | 3-10-1990 | 2003 | 1002 |
| 3006 | 1098.16 | 3-10-1990 | 2008 | 1007 |
| 3009 | 1713.23 | 4-10-1990 | 2002 | 1003 |
| 3007 | 75.75 | 4-10-1990 | 2004 | 1002 |
| 3008 | 4273.00 | 5-10-1990 | 2006 | 1001 |
| 3010 | 1309.95 | 6-10-1990 | 2004 | 1002 |
| 3011 | 9891.88 | 6-10-1990 | 2006 | 1001 |

Assignment –1 & 2

Consider the sample database and implement the following and note down the observations.

Q 1) .Create these three tables along with constraints as mentioned.

Ans ).

Table :1. Create table Salespeople(Snum number(8) , Sname varchar(20) unique,City varchar(20),Comm decimal(5,2), primay key(Snum));

Table :2. Create table Customers(Cnum number(5) primary key,Cname varchar(20),City varchar(20) not null, Snum number(5),foreign key(snum) references salespeople(snum));

Table :3. create table Orders(Onum number(5),Amt decimal(10,2),Odate date,Cnum number(5) **references** Customer(Cnum),Snum number(5),**foreign key**(Snum) references SalesPeople(Snum));

Q 2) Insert the data into tables with the given values.

Table :1. Salespeople

Insert into Salespeople values(1001,’Peel’,’London’,0.12);

Insert into Salespeople values(1002,’Serres’,’Sanjose’,0.13);

Insert into Salespeople values(1004,’Motika’,’London’,0.11);

Insert into Salespeople values(1007,’Rifkin’,’Barcelona’,0.15);

Insert into Salespeople values(1003,’Axelrod’,’Newyork’,0.10);

Table:2. Customers

Insert into Customers values(2001,’Hoffman’,’London’,1001);

Insert into Customers values(2002,’Giovanni’,’Rome’,1003);

Insert into Customers values(2003,’Liu’,’Sanjose’,1002);

Insert into Customers values(2004,’Grass’,’Berlin’,1002);

Insert into Customers values(2006,’Clemens’,’London’,1001);

Insert into Customers values(2008,’Cisneros’,’Sanjose’,1007);

Insert into Customers values(2007,’Pereira’,’Rome’,1004);

Table:3 ). Orders

Insert into values(3001,18.69,’3-10-1990’,2008,1007);

Insert into values(3003,767.19,’3-10-1990’,2001,1001);

Insert into values(3002,1900.10,’3-10-1990’,2007,1004);

Insert into values(3005,5160.45,’3-10-1990’,2003,1002);

Insert into values(3006,1098.16,’3-10-1990’,2008,1007);

Q 3) Add a new column Father’s Name in SalesPeople table.

Ans: Alter table SalesPeople add FathersName varchar(20);

Q 4) Drop Primary Key of Customer table.

Ans: Alter table Customers drop Primary key;

Q5) Add not null constraint to Amt in Orders table.

Ans: Alter table Orders MODIFY Amt decimal(10,2) not null;

Q 6) Add unique constraint to Cname in Customers table.

Ans: Alter table Customers Add constraint Unique(Cname);

Q 7) Rename Sname of SalesPeople table to SalesPeopleName.

Ans: Alter table Salespeople RENAME Sname to SalesPeopleName;

Q 8) Rename SalesPeople table to SPTable.

Ans: Alter table Salespeople RENAME to SPTable;

Q 9) Decrease/Increase the domain of city field of Customers table.

Ans: Alter table Customers MODIFY City varchar(30);

Alter table Customers MODIFY City varchar(10);

Q 10) Drop customers table.

Ans: Drop table Customers;