Project Name – Pay on delivery

Description – Like small local Amazon

Front End UI – html/android

Backend - Java /tomcat server or python

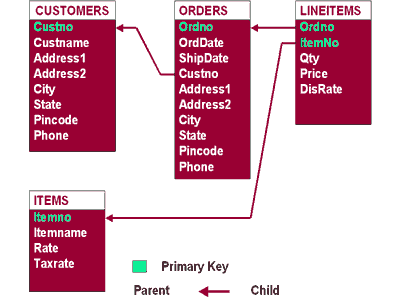
Relevant link - <http://srikanthtechnologies.com/oracle/purord/tables.html>

**Required Tables**

**This is a simple purchase order example in which customers place orders and each order contains one or more items. The data related to this application will be stored in the following tables.**

|  |  |
| --- | --- |
| **Table** | **Meaning** |
| Items | Stores information about products that are offered by company |
| Customers | Contains information about customer who place orders. |
| orders | Stores information about all orders placed by customers |
| lineitems | Contains information about items in each order. |

**The following picture shows the relationship between these four tables.**

****

**ITEMS table**

**This table stores information about all the items that are offered by compnay. The structure of the table is as follows:**

|  |  |  |
| --- | --- | --- |
| **Column** | **Datatype** | **Meaning** |
| Itemno | Number(5) | A unique number assigned to each item. |
| ItemName | Varchar2(20) | Name of the item. |
| Rate | Number(8,2) | Rate of the item. |
| taxrate | Number(4,2) | Sales tax rate for this item. |

**The following are the constraints related to ITEMS table:**

* **ITEMNO is primary key**
* **RATE and TAXRATE must be >= 0**
* **Default value for TAXRATE is 0**

**create table ITEMS**

**(**

**itemno number(5) constraint items\_pk primary key,**

**itemname varchar2(20),**

**rate number(8,2) constraint items\_rate\_chk check( rate >= 0),**

**taxrate number(4,2) default 0 constraint items\_rate\_chk check( rate >= 0)**

**);**

**insert into items values(1,'Samsung 14" monitor',7000,10.5);**

**insert into items values(2,'TVS Gold Keyboard',1000,10);**

**insert into items values(3,'Segate HDD 20GB',6500,12.5);**

**insert into items values(4,'PIII processor',8000,8);**

**insert into items values(5,'Logitech Mouse',500,5);**

**insert into items values(6,'Creative MMK',4500,11.5);**

**CUSTOMERS Table**

**This table contains information about customers who have placed one or more orders. The following is the structure of the table.**

|  |  |  |
| --- | --- | --- |
| **Column** | **Datatype** | **Meaning** |
| Custno | Number(5) | A unique number assigned to each customer. |
| CustName | Varchar2(20) | Complete name of the customer. |
| Address1 | varchar2(50) | First line of address. |
| Address2 | varchar2(50) | Second line of address. |
| City | varchar2(30) | Name of the city where customer lives. |
| state | varchar2(30) | Name of the state where customer lives. |
| PinCode | varchar2(10) | Pincode of the city. |
| Phone | varchar2(30) | One or more phone numbers separated using comma(,). |

**The following are the constraint related to CUSTOMERS table.**

* **CUSTNO is primary key**
* **CUSTNAME is not null column**

**create table CUSTOMERS**

**(**

**custno number(5) constraint customers\_pk primary key,**

**custname varchar2(20) constraint customers\_custname\_nn not null,**

**address1 varchar2(50),**

**address2 varchar2(50),**

**city varchar2(30),**

**state varchar2(30),**

**pin varchar2(10),**

**phone varchar2(30)**

**);**

**insert into customers values(101,'Raul','12-22-29','Dwarakanagar',**

**'Vizag','AP','530016','453343,634333');**

**insert into customers values(102,'Denilson','43-22-22','CBM Compound',**

**'Vizag','AP','530012','744545');**

**insert into customers values(103,'Mendiator','45-45-52','Abid Nagar',**

**'Vizag','AP','530016','567434');**

**insert into customers values(104,'Figo','33-34-56','Muralinagar',**

**'Vizag','AP','530021','875655,876563,872222');**

**insert into customers values(105,'Zidane','23-22-56','LB Colony',**

**'Vizag','AP','530013','765533');**

**ORDERS Table**

**Contains information about all orders placed by customers. Contains one row for each order. The details of items ordered in an order will be found in LINEITEMS table. The following is the structure of the table.**

|  |  |  |
| --- | --- | --- |
| **Column** | **Datatype** | **Meaning** |
| OrdNo | Number(5) | A unique number assigned to each order. |
| OrdDate | Date | Date on which order is placed. |
| ShipDate | Date | Date on which goods are to be shipped to customer. |
| Address1 | varchar2(50) | First line of shipping address. |
| Address2 | varchar2(50) | Second line of shipping address. |
| City | varchar2(30) | City name in shipping address. |
| state | varchar2(30) | State name in shipping address. |
| PinCode | varchar2(10) | Pincode of the city in shipping address. |
| Phone | varchar2(30) | One or more phone numbers separated using comma(,) of shipping place. |

**The following are the constraint related to ORDERS table.**

* **ORDNO is primary key**
* **CUSTNO is foreign key referencing CUSTNO of CUSTOMERS table.**
* **SHIPDATE must be >= ORDDATE.**

**create table ORDERS**

**(**

**ordno number(5) constraint orders\_pk primary key,**

**orddate date,**

**shipdate date,**

**custno number(5) constraint orders\_custno\_pk references customers,**

**address1 varchar2(50),**

**address2 varchar2(50),**

**city varchar2(30),**

**state varchar2(30),**

**pin varchar2(10),**

**phone varchar2(30),**

**constraint order\_dates\_chk check( orddate <= shipdate)**

**);**

**insert into orders values(1001,'15-May-2001','10-jun-2001',102,**

**'43-22-22','CBM Compound','Vizag','AP','530012','744545');**

**insert into orders values(1002,'15-May-2001','5-jun-2001',101,**

**'12-22-29','Dwarakanagar','Vizag','AP','530016','453343,634333');**

**insert into orders values(1003,'17-May-2001','7-jun-2001',101,**

**'12-22-29','Dwarakanagar','Vizag','AP','530016','453343,634333');**

**insert into orders values(1004,'18-May-2001','17-jun-2001',103,**

**'45-45-52','Abid Nagar', 'Vizag','AP','530016','567434');**

**insert into orders values(1005,'20-May-2001','3-jun-2001',104,**

**'33-34-56','Muralinagar','Vizag','AP','530021','875655,876563,872222');**

**insert into orders values(1006,'23-May-2001','11-jun-2001',104,**

**'54-22-12','MVP Colony','Vizag','AP','530024',null);**

**LINEITEMS Table**

**Contains details of items ordered in each order. For each item in each order this table contains one row. The following is the structure of the table.**

|  |  |  |
| --- | --- | --- |
| **Column** | **Datatype** | **Meaning** |
| OrdNo | Number(5) | Refers to the order number of the order. |
| Itemno | Number(5) | Refers to the item number of the item. |
| qty | number(3) | Howmany units of this item arerequired in this order. |
| price | Number(8,2) | Selling price of the item for this order. |
| DisRate | Number(4,2) | Discount Rate for this item in this order. |

**The following are the constraint related to ORDERS table.**

* **Primary key is ORDNO and ITEMNO.**
* **ORDNO is a foreign key referencing ORDNO of ORDERS table.**
* **ITEMNO is a foreign key referencing ITEMNO of ITEMS table.**
* **Default DISRATE is 0**
* **QTY must be >= 1**
* **DISRATE must be >= 0**

**create table LINEITEMS**

**(**

**ordno number(5) constraint LINEITEMS\_ORDNO\_FK references ORDERS,**

**itemno number(5) constraint LINEITEMS\_itemno\_FK references ITEMS,**

**qty number(3) constraint LINEITEMS\_qty\_CHK CHECK( qty >= 1),**

**price number(8,2),**

**disrate number(4,2) default 0**

**constraint LINEITEMS\_DISRATE\_CHK CHECK( disrate >= 0),**

**constraint lineitems\_pk primary key (ordno,itemno)**

**);**

**insert into lineitems values(1001,2,3,1000,10.0);**

**insert into lineitems values(1001,1,3,7000,15.0);**

**insert into lineitems values(1001,4,2,8000,10.0);**

**insert into lineitems values(1001,6,1,4500,10.0);**

**insert into lineitems values(1002,6,4,4500,20.0);**

**insert into lineitems values(1002,4,2,8000,15.0);**

**insert into lineitems values(1002,5,2,600,10.0);**

**insert into lineitems values(1003,5,10,500,0.0);**

**insert into lineitems values(1003,6,2,4750,5.0);**

**insert into lineitems values(1004,1,1,7000,10.0);**

**insert into lineitems values(1004,3,2,6500,10.0);**

**insert into lineitems values(1004,4,1,8000,20.0);**

**insert into lineitems values(1005,6,1,4600,10.0);**

**insert into lineitems values(1005,2,2,900,10.0);**

**insert into lineitems values(1006,2,10,950,20.0);**

**insert into lineitems values(1006,4,5,7800,10.0);**

**insert into lineitems values(1006,3,5,6600,15.0);**

**Based on the above create following Database**

create table ITEMS

(

itemno MEDIUMINT NOT NULL AUTO\_INCREMENT,

itemname varchar(20),

rate DOUBLE(10,2) DEFAULT 0,

unit int DEFAULT 0 COMMENT '0-packet, 1-kg, 2-litter, ',

taxrate DOUBLE(10,2) DEFAULT 0,

CONSTRAINT items\_rate\_chk check( rate >= 0),

PRIMARY KEY (itemno)

);

create table CUSTOMERS

(

custno MEDIUMINT NOT NULL AUTO\_INCREMENT,

custname varchar(20),

custType int default 0 COMMENT '0-kharidne wala, 1-saman pahuchane wala',

mobileNo varchar(20),

password varchar(20),

emailid varchar(20),

loggedin tinyint(1) default 0 COMMENT '0-logged out, 1-logged in',

streetName varchar(50),

colonyName varchar(50),

city varchar(30),

state varchar(30),

pin varchar(10),

CountryCode varchar(30),

PRIMARY KEY (custno)

);

create table ORDERS

(

ordno MEDIUMINT NOT NULL AUTO\_INCREMENT,

orddate datetime,

shipdate datetime,

deliveredDate datetime,

cancelDate datetime,

custno MEDIUMINT NOT NULL COMMENT 'id of purchaser of the goods',

deliveryCustNo MEDIUMINT NOT NULL COMMENT 'id of person who delivers the goods',

orderState int COMMENT '0-pending, 1 - delivered, 2 - canceled',

address1 varchar(50),

address2 varchar(50),

city varchar(30),

state varchar(30),

pin varchar(10),

phone varchar(30),

CONSTRAINT order\_dates\_chk check( orddate <= shipdate),

FOREIGN KEY (custno) REFERENCES CUSTOMERS(custno),

FOREIGN KEY (deliveryCustNo) REFERENCES CUSTOMERS(custno),

PRIMARY KEY (ordno)

);

create table DELIVERY\_RATES

(

id MEDIUMINT NOT NULL AUTO\_INCREMENT,

deliveryAreaRadiusKM DOUBLE(10,2) COMMENT 'Radius of an area in which order is to deliver',

minTotalOrderPrice DOUBLE(10,2) COMMENT 'minimum price',

maxTotalOrderPrice DOUBLE(10,2) COMMENT 'maximum price',

deliveryAmount DOUBLE(10,2) COMMENT 'Amount which we ask from buyer to deliver goods at buyer address according to deliveryAreaRadiusKM or total order price falls between minTotalOrderPrice and maxTotalOrderPrice',

PRIMARY KEY (id)

);

create table DELIVERY\_CUST\_ACCOUNT

(

deliveryCustNo MEDIUMINT NOT NULL,

ordno MEDIUMINT NOT NULL,

amountPaid DOUBLE(10,2) COMMENT 'Amount given to delivery person to purchase items and deliver to the buyer address',

amountReceived DOUBLE(10,2) COMMENT 'Amount received from delivery person after getting money from buyer',

FOREIGN KEY (deliveryCustNo) REFERENCES CUSTOMERS(custno),

FOREIGN KEY (ordno) REFERENCES ORDERS(ordno),

CONSTRAINT DELIVERY\_CUST\_ACCOUNT\_pk primary key (deliveryCustNo,ordno)

);

create table ORDERITEMS

(

ordno MEDIUMINT NOT NULL,

itemno MEDIUMINT NOT NULL,

quantity DOUBLE(10,2),

CONSTRAINT orderitems\_pk primary key (ordno,itemno),

FOREIGN KEY (ordno) REFERENCES ORDERS(ordno),

FOREIGN KEY (itemno) REFERENCES ITEMS(itemno),

CONSTRAINT ORDERITEMS\_qty\_CHK CHECK( quantity >= 1)

);

**Steps and flow of the project.**

1. Register customers ( buyer, seller, delivery boys, admin ). Entry goes in CUSTOMERS table.

2. An GUI for admin to enter items. Entry goes into ITEMS table.

3. A web based mobile phone GUI to place order by the buyer, one order will contain atleast one item. Entry goes into the ORDERS and ORDERITEMS table.

4. A GUI to login by the customers.

5. A buyer place order with many items, admin will view orders on orders page, admin will assign order to delivery person, delivery person ask money

from owner, owner enters the amount in DELIVERY\_CUST\_ACCOUNT table in amountPaid field, delivery person purchase the goods and deliver to

the customer address, delivery person recives money from the buyer (amount of total items + delivery charges), delivery person gives money to the owner,

owner enters amount in DELIVERY\_CUST\_ACCOUNT table in amountReceived field. A GUI will show the profit or loss per order per delivery person.

6. A GUI to assign order to delivery person.

7. A GUI to enter amount paid/recived to/from delivery person by owner.

8. A GUI to view my orders by buyer.

9. A GUI to view all the assigned orders to the particular delivery person.

10. A GUI to view all the orders on the basis of city/colony/street name.

11. A GUI to update the order state from pending to delivered.

12. A GUI to view total profit or loss weekly, monthly, from start date to end date.

# for webapp deployment:--

first make sure hibernate-jpa-2.0-api jar downloaded and it is available in your build path. after that right click on project-->Build Path--->configure build path--->deployment Assembly--->Add--->java build path entries--->select the available jar(hibernate-jpa-2.0-api)--->next--->finish.