

SQL Code

```
/*=====*/  
/*          DBMS name:  ORACLE Version 10g          */  
/*          Created on:  2020-03-07 4:42:49 PM      */  
/*=====*/
```

alter table Adjustment

drop constraint FK_ADJUSTME_ADJUST_ITEM;

alter table Adjustment

drop constraint FK_ADJUSTME_DESCRIBE_ADJUSTME;

alter table Adjustment

drop constraint FK_ADJUSTME_LEAD_EMPLOYEE;

alter table Adjustment

drop constraint FK_ADJUSTME_PERFORM_EMPLOYEE;

alter table Branch

drop constraint FK_BRANCH_MANAGE_EMPLOYEE;

alter table Complaint

drop constraint FK_COMPLAIN_ASSIGN_INVOICE;

alter table Employee

drop constraint FK_EMPLOYEE_WORK_BRANCH;

alter table Invoice

drop constraint FK_INVOICE_CHANGESTO_ORDER;

alter table Invoice

drop constraint FK_INVOICE_HANDLE_EMPLOYEE;

alter table Item

drop constraint FK_ITEM_CONSIST_PURCHASE;

alter table Item

drop constraint FK_ITEM_DEFINE_ITEMTYPE;

alter table Item

drop constraint FK_ITEM_INCLUDE_ORDER;

alter table Item

drop constraint FK_ITEM_SUPPLY_SUPPLIER;

alter table order

drop constraint FK_ORDER_CREATE_CUSTOMER;

alter table order

drop constraint FK_ORDER_IS_CHANGE_TO_INVOICE;

alter table Purchase

drop constraint FK_PURCHASE_REQUIRE_CUSTOMER;

drop index ADJUST_FK;

drop index DESCRIBE_FK;

drop index LEAD_FK;

drop index PERFORM_FK;

drop table Adjustment cascade constraints;

drop table AdjustmentType cascade constraints;

drop index MANAGE_FK;

drop table Branch cascade constraints;

drop index ASSIGN_FK;

drop table Complaint cascade constraints;

drop table Customer cascade constraints;

drop index WORK_FK;

drop table Employee cascade constraints;

drop index HANDLE_FK;

drop index CHANGES_TO_FK;

drop table Invoice cascade constraints;

drop index CONSIST_FK;

drop index INCLUDE_FK;

drop index SUPPLY_FK;

drop index DEFINE_FK;

drop table Item cascade constraints;

drop table ItemType cascade constraints;

drop index IS_CHANGED_FROM_FK;

drop index CREATE_FK;

drop table order cascade constraints;

drop index REQUIRE_FK;

drop table Purchase cascade constraints;

drop table Supplier cascade constraints;

```

/*=====*/
/*          Table: Adjustment          */
/*=====*/
create table Adjustment (
  AdjustmentID      INTEGER      not null,
  EmployeeID        INTEGER      not null,
  Manager_EmployeeID  INTEGER      not null,
  ItemID            INTEGER      not null,
  AdjustmentTypeID  INTEGER      not null,
  StartDateTime     TIMESTAMP(9)  not null,
  EndDateTime       TIMESTAMP(9),
  constraint PK_ADJUSTMENT primary key (AdjustmentID)
);

```

```

/*=====*/
/*          Index: PERFORM_FK          */
/*=====*/
create index PERFORM_FK on Adjustment (
  EmployeeID ASC
);

```

```

/*=====*/
/*          Index: LEAD_FK            */
/*=====*/
create index LEAD_FK on Adjustment (
  Manager_EmployeeID ASC
);

```

```
/*=====*/
/*          Index: DESCRIBE_FK          */
/*=====*/
create index DESCRIBE_FK on Adjustment (
  AdjustmentTypeID ASC
);
```

```
/*=====*/
/*          Index: ADJUST_FK          */
/*=====*/
create index ADJUST_FK on Adjustment (
  ItemID ASC
);
```

```
/*=====*/
/*          Table: AdjustmentType     */
/*=====*/
create table AdjustmentType (
  AdjustmentTypeID    INTEGER          not null,
  Name                VARCHAR2(50)    not null,
  Difficulty           VARCHAR2(10)    not null,
  Price               NUMBER(20,4)     not null,
  constraint PK_AdjustmentType primary key (AdjustmentTypeID)
);
```

```
/*=====*/
/*          Table: Branch          */
/*=====*/
```

```
create table Branch (
  BranchID          INTEGER          not null,
  HOD_EmployeeID   INTEGER,
  Name              VARCHAR2(50)     not null,
  Country           VARCHAR2(50)     not null,
  City              VARCHAR2(50)     not null,
  Street            VARCHAR2(50)     not null,
  PostalCode        NUMBER(5,0)      not null,
  constraint PK_BRANCH primary key (BranchID)
);
```

```
/*=====*/
/*          Index: MANAGE_FK        */
/*=====*/
```

```
create index MANAGE_FK on Branch (
  HOD_EmployeeID ASC
);
```

```
/*=====*/
/*          Table: Complaint        */
/*=====*/
```

```
create table Complaint (
  InvoiceID         INTEGER          not null,
  ComplaintID      INTEGER          not null,
  Reason           VARCHAR2(50)     not null,
  Notes            VARCHAR2(100),
```



```

TIN          VARCHAR2(15),
constraint PK_CUSTOMER primary key (CustomerID)
);

/*=====*/
/*          Table: Employee          */
/*=====*/
create table Employee (
EmployeeID      INTEGER          not null,
BranchID        INTEGER          not null,
FirstName       VARCHAR2(50)     not null,
Surname         VARCHAR2(50)     not null,
Title           VARCHAR2(10),
Role            VARCHAR2(50)     not null,
ContractStartDate DATE          not null,
ContractType    VARCHAR2(20)     not null,
Salary          NUMBER(20,4)     not null,
TelephoneNr     NUMBER(14),
Email           VARCHAR2(50)     not null,
Country         VARCHAR2(50)     not null,
City            VARCHAR2(50)     not null,
Street          VARCHAR2(50),
PostalCode      NUMBER(5,0),
DateOfBirth     DATE            not null,
Gender          VARCHAR2(1)      not null,
constraint PK_EMPLOYEE primary key (EmployeeID)
);

```

```
/*=====*/
/*          Index: WORK_FK          */
/*=====*/
create index WORK_FK on Employee (
  BranchID ASC
);
```

```
/*=====*/
/*          Table: Invoice          */
/*=====*/
create table Invoice (
  InvoiceID      INTEGER      not null,
  orderID       INTEGER      not null,
  EmployeeID    INTEGER      not null,
  InvoiceNr      NUMBER(10)    not null,
  InvoiceDate    DATE         not null,
  DeliveryDate  DATE,
  AmountDue     NUMBER(20,4)  not null,
  constraint PK_INVOICE primary key (InvoiceID)
);
```

```
/*=====*/
/*          Index: CHANGES_TO_FK  */
/*=====*/
create index CHANGES_TO_FK on Invoice (
  orderID ASC
);
```

```
/*=====*/
```

```
/* Index: HANDLE_FK                                */
/*=====*/
create index HANDLE_FK on Invoice (
    EmployeeID ASC
);
```

```
/*=====*/
/*                                Table: Item                                */
/*=====*/
create table Item (
    ItemID          INTEGER          not null,
    orderID         INTEGER,
    PurchaseID     INTEGER,
    SupplierID     INTEGER,
    ItemTypeID     INTEGER          not null,
    ItemSerialNr   VARCHAR2(30)     not null,
    constraint PK_ITEM primary key (ItemID)
);
```

```
/*=====*/
/*                                Index: DEFINE_FK                            */
/*=====*/
create index DEFINE_FK on Item (
    ItemTypeID ASC
);
```

```
/*=====*/
/*                                Index: SUPPLY_FK                            */
/*=====*/
```

```
create index SUPPLY_FK on Item (  
    SupplierID ASC  
);
```

```
/*=====*/  
/*                Index: INCLUDE_FK                */  
/*=====*/
```

```
create index INCLUDE_FK on Item (  
    orderID ASC  
);
```

```
/*=====*/  
/*                Index: CONSIST_FK                */  
/*=====*/
```

```
create index CONSIST_FK on Item (  
    PurchaseID ASC  
);
```

```
/*=====*/  
/*                Table: ItemType                */  
/*=====*/
```

```
create table ItemType (  
    ItemTypeID    INTEGER            not null,  
    Name          VARCHAR2(50)       not null,  
    "Type"        VARCHAR2(50),  
    "Size"        VARCHAR2(30),  
    "Price"       NUMBER(20,4)       not null,  
    "Cost"        NUMBER(20,4)       not null,  
    "Warranty"   INTEGER,
```

```
"Customizability"  VARCHAR2(3)          not null,  
"Returnable"      VARCHAR2(3),  
constraint PK_ITEMTYPE primary key (ItemTypeID)  
);
```

```
/*=====*/  
/*          Table: Order          */  
/*=====*/
```

```
create table order (  
  orderID          INTEGER          not null,  
  CustomerID      INTEGER          not null,  
  InvoiceID        INTEGER,  
  orderNr         NUMBER(10)       not null,  
  orderDate       DATE             not null,  
  Discount        NUMBER(3,2),  
  Notes           VARCHAR2(100),  
  Status          VARCHAR2(20)     not null,  
  constraint PK_ORDER primary key (orderID)  
);
```

```
/*=====*/  
/*          Index: CREATE_FK          */  
/*=====*/
```

```
create index CREATE_FK on order (  
  CustomerID ASC  
);
```

```
/*=====*/
/*          Index: IS_CHANGED_FROM_FK          */
/*=====*/
create index IS_CHANGED_FROM_FK on order (
  InvoiceID ASC
);
```

```
/*=====*/
/*          Table: Purchase          */
/*=====*/
create table Purchase (
  PurchaseID      INTEGER      not null,
  CustomerID      INTEGER      not null,
  ReceiptNr       NUMBER(10)    not null,
  PurchaseDate    DATE          not null,
  ReturnDate      DATE,
  constraint PK_PURCHASE primary key (PurchaseID)
);
```

```
/*=====*/
/*          Index: REQUIRE_FK          */
/*=====*/
create index REQUIRE_FK on Purchase (
  CustomerID ASC
);
```

```
/*=====*/  
/*          Table: Supplier          */  
/*=====*/
```

```
create table Supplier (  
  SupplierID      INTEGER          not null,  
  TelephoneNr     NUMBER(14)       not null,  
  Email           VARCHAR2(50)     not null,  
  Country         VARCHAR2(50)     not null,  
  City           VARCHAR2(50)     not null,  
  Street         VARCHAR2(50)     not null,  
  PostalCode     NUMBER(5,0)       not null,  
  Notes          VARCHAR2(100),  
  Rate           INTEGER,  
  constraint PK_SUPPLIER primary key (SupplierID),  
  constraint check_Rate check (Rate between 1 and 5)  
);
```

```
/*=====*/  
/*          Alter: Tables and adding foreign keys          */  
/*=====*/
```

```
alter table Adjustment  
  add constraint FK_Adjustment_Adjuste_Item foreign key (ItemID)  
  references Item (ItemID);  
  
alter table Adjustment  
  add constraint FK_AdjusType_Descripe_Adjus foreign key (AdjustmentTypeID)  
  references AdjustmentType (AdjustmentTypeID);  
  
alter table Adjustment  
  add constraint FK_Adjus_IsLead_ByEmploy foreign key (EmployeeID)  
  references Employee (EmployeeID);
```

alter table Branch

add constraint FK_BRANCH_MANAGE_EMPLOYEE foreign key (HOD_EmployeeID)
references Employee (EmployeeID);

alter table Complaint

add constraint FK_COMPLAIN_ASSIGN_INVOICE foreign key (InvoiceID)
references Invoice (InvoiceID);

alter table Employee

add constraint FK_EMPLOYEE_WORK_BRANCH foreign key (BranchID)
references Branch (BranchID);

alter table Invoice

add constraint FK_INVOICE_CHANGES_TO_order foreign key (orderID)
references order (orderID);

alter table Invoice

add constraint FK_INVOICE_HANDLE_EMPLOYEE foreign key (EmployeeID)
references Employee (EmployeeID);

alter table Item

add constraint FK_ITEM_CONSIST_PURCHASE foreign key (PurchaseID)
references Purchase (PurchaseID);

alter table Item

add constraint FK_ITEM_DEFINE_ITEMTYPE foreign key (ItemTypeID)
references ItemType (ItemTypeID);

alter table Item

add constraint FK_ITEM_INCLUDE_ORDER foreign key (orderID)
references order (orderID);

alter table Item

add constraint FK_ITEM_SUPPLY_SUPPLIER foreign key (SupplierID)
references Supplier (SupplierID);

alter table order

```
add constraint FK_ORDER_CREATE_CUSTOMER foreign key (CustomerID)
references Customer (CustomerID);
```

alter table order

```
add constraint FK_ORDER_IS_CHANGE_TO_INVOICE foreign key (InvoiceID)
references Invoice (InvoiceID);
```

alter table Purchase

```
add constraint FK_PURCHASE_REQUIRE_CUSTOMER foreign key (CustomerID)
references Customer (CustomerID);
```

```
/*=====*/
```

```
/*          altering and adding constraints:          */
```

```
/*=====*/
```

alter table Employee

```
add constraint check_Gender check (Gender in ('M','F','U'));
```

alter table Customer

```
add constraint check_Customer_Gender check (Gender in ('M','F','U' ));
```

alter table AdjustmentType

```
add constraint check_Difficulty check (Difficulty in ('Easy','Average','Tough'));
```

alter table itemtype

```
add constraint check_ItemCustomizability check (Customizability in ('Yes','No'));
```

alter table itemtype

```
add constraint check_ItemReturnable check (Returnable in ('Yes','No'));
```

alter table itemtype

```
add constraint check_Warranty check (Warranty between 1 and 2);
```

alter table supplier

add constraint check_SupplierRate check (Rate between 1 and 5);

alter table complaint

add constraint check_ComplaintStatus check (Status in ('Confirmed','In process','Rejected'));

alter table order

add constraint check_orderStatus check (Status in ('Finished','Pending','Canceled'));

/*=====*/

/* altering and adding trigger and sequence */

/*=====*/

--drop sequence AdjustmentID_SEQ;

Create sequence AdjustmentID_SEQ;

Create or replace trigger AdjustmentID_TRG

Before insert on Adjustment

For each row

Begin

Select AdjustmentID_SEQ.nextval into :new.AdjustmentID from dual;

End;

--drop sequence AdjustmentTypeID_SEQ;

Create sequence AdjustmentTypeID_SEQ;

Create or replace trigger AdjustmentTypeID_TRG

Before insert on AdjustmentType

For each row

Begin

Select AdjustmentTypeID_SEQ.nextval into :new.AdjustmentTypeID from dual;

End;

```
--drop sequence BranchID_SEQ;  
Create sequence BranchID_SEQ;  
Create or replace trigger BranchID_TRG  
Before insert on Branch  
For each row  
Begin  
Select BranchID_SEQ.nextval into :new.BranchID from dual;  
End;
```

```
-----  
--drop sequence ComplaintID_SEQ;  
Create sequence ComplaintID_SEQ;  
Create or replace trigger ComplaintID_TRG  
Before insert on Complaint  
For each row  
Begin  
Select ComplaintID_SEQ.nextval into :new.ComplaintID from dual;  
End;
```

```
-----  
--drop sequence CustomerID_SEQ;  
Create sequence CustomerID_SEQ;  
Create or replace trigger CustomerID_TRG  
Before insert on Customer  
For each row  
Begin  
Select CustomerID_SEQ.nextval into :new.CustomerID from dual;  
End;
```

```
-----  
--drop sequence EmployeeID_SEQ;  
Create sequence EmployeeID_SEQ;
```

Create or replace trigger EmployeeID_TRG

Before insert on Employee

For each row

Begin

Select EmployeeID_SEQ.nextval into :new.EmployeeID from dual;

End;

--drop sequence InvoiceID_SEQ;

Create sequence InvoiceID_SEQ;

Create or replace trigger InvoiceID_TRG

Before insert on Invoice

For each row

Begin

Select InvoiceID_SEQ.nextval into :new.InvoiceID from dual;

End;

--drop sequence ItemID_SEQ;

Create sequence ItemID_SEQ;

Create or replace trigger ItemID_TRG

Before insert on Item

For each row

Begin

Select ItemID_SEQ.nextval into :new.ItemID from dual;

End;

--drop sequence ItemTypeID_SEQ;

Create sequence ItemTypeID_SEQ;

Create or replace trigger ItemTypeID_TRG

Before insert on ItemType

```
For each row
Begin
Select ItemTypeID_SEQ.nextval into :new.ItemTypeID from dual;
End;
```

```
-----
--drop sequence orderID_SEQ;
Create sequence orderID_SEQ;
Create or replace trigger orderID_TRG
```

```
Before insert on order
For each row
Begin
Select orderID_SEQ.nextval into :new.orderID from dual;
End;
```

```
-----
--drop sequence PurchaseID_SEQ;
Create sequence PurchaseID_SEQ;
Create or replace trigger PurchaseID_TRG
```

```
Before insert on Purchase
For each row
Begin
Select PurchaseID_SEQ.nextval into :new.PurchaseID from dual;
End;
```

```
-----
--drop sequence SupplierID_SEQ;
Create sequence SupplierID_SEQ;
Create or replace trigger SupplierID_TRG
```

```
Before insert on Supplier
For each row
Begin
```

```
Select SupplierID_SEQ.nextval into :new.SupplierID from dual;
```

```
End;
```

```
/*=====*/
```

```
/*          Inserting Dummy Data Table Customer          */
```

```
/*=====*/
```

```
insert into customer values (null,00937730560787,'smith@net.Af','Afghanistan','Kabul','Kabul new street 22',10250,'Jhon','Smith','M',
```

```
        'Ing','1992-03-08',null,null);
```

```
insert into customer values (null,00937730560177,'david@net.Af','Afghanistan','Ghazni','Ghazni 22',00052,'Adam','David','M',
```

```
        'Ing','1992-03-08',null,null);
```

```
insert into customer values (null,00937738701974,'Nadim@net.Af','Afghanistan','Kabul','Kabul new street 22',00250,'Nadim','Bredlay','M',
```

```
        null,'1995-08-18',null,null);
```

```
insert into customer values (null,00937730560787,'smith@net.Af','Afghanistan','Kabul','Kabul new street 22',10250,'Jhon','Smith','M',
```

```
        'Ing','1992-03-08',null,null);
```

```
insert into customer values (null,00937740600200,'Nadim@net.Af','Afghanistan','Kabul','Kabul new street 22',00250,'Nadim','Bredlay','M',
```

```
        null,'1995-08-18',null,null);
```

```
insert into customer values (null,00937730560787,'smith@net.Af','Afghanistan','Kabul','Kabul new street 22',10250,'Jhon','Smith','M',
```

```
        'Ing','1992-03-08',null,null);
```

```
insert into customer values (null,00370627667408,'est@pretium.com','Czech republic','Prague','Vaclaska praha 1',20050,'DHLL',null,null,
```

```
        null,null,1992002020,'DHLL210052002');
```

```
insert into customer values (null,00370102147852,'west@product.com','Germany','Berlin','Berlin main street 1',30050,'CCNH',null,null,
```

```
        null,null,1882020201,'CCNH210052002');
```

```
insert into customer values (null,00683054066748,'neque@Cras.co.AF','Netherlands','Glendon','P.O. Box 875 Feugiat Ave',75167,'Jana','Clemons','F',
```

```
        null,'2003-08-22',null,null);
```

```
insert into customer values (null,00684087259011,'mike@Cras.co.gh','Netherlands','Glendon','P.O.
Box 888 Feugggt',75005,'Hana','Jersy','U',
```

```
    null,'2001-04-20',null,null);
```

```
    /*record for purchase without being ordered*/
```

```
insert into customer (customerID) values (null);
```

```
insert into customer (customerID) values (null);
```

```
insert into customer (customerID) values (null);
```

```
insert into customer (customerID) values (null);
```

```
select * from Customer;
```

```
/*=====*/
```

```
/*          Inserting Dummy Data Table Order          */
```

```
/*=====*/
```

```
insert into order values (null,1,null,2000,'2020-01-05',0.10,'the name need to be engraved in the
front side','Finished');
```

```
insert into order values (null,4,null,2001,'2020-01-15',0.10,'null','Finished');
```

```
insert into order values (null,6,null,2002,'2020-01-05',null,'the pictures need to be printed in one
month time','Finished');
```

```
insert into order values (null,9,null,2003,'2020-01-05',0.10,'the company logo need to be engraved in
all to side of the cups','Finished');
```

```
insert into order values (null,10,null,2004,'2020-01-05',0.05,'all the wallpapers needs painted in two
mouths time','Pending');
```

```
insert into order values (null,7,null,2005,'2020-02-07',null,'null','Canceled');
```

```
insert into order values (null,5,null,2006,'2019-09-05',0.10,'null','Finished');
```

```
insert into order values (null,8,null,2007,'2019-01-10',0.10,'null','Finished');
```

```
insert into order values (null,2,null,2008,'2020-02-19',0.05,'the name need to be engraved in the
front side','Finished');
```

```
insert into order values (null,3,null,2009,'2020-03-06',0.10,'null','Finished');
```

```
----- customer which ordered more then once---
```

```
insert into order values (null,3,null,2010,'2017-03-06',0.05,'null','Finished');
```

```
insert into order values (null,5,null,2011,'2019-10-05',0.10,'null','Finished');
```

```
insert into order values (null,5,null,2012,'2019-10-15',0.10,'null','Finished');
```

```

insert into order values (null,8,null,2013,'2019-02-10',0.10,'null','Finished');
insert into order values (null,8,null,2014,'2019-02-18',0.10,'null','Finished');
insert into order values (null,1,null,2015,'2020-02-05',0.10,'the name need to be engraved in the
front side','Finished');
select * from order;
--alter table order drop column expectedprice;-----

```

```

/*=====*/
/*          Inserting Dummy Data Table Invoice          */
/*=====*/

```

```

insert into invoice values (null,1,7,3000,'2020-01-05','2020-01-08',1300);
insert into invoice values (null,2,7,3001,'2020-01-15','2020-02-01',3500);
insert into invoice values (null,3,8,3002,'2020-01-05','2020-02-05',1700);
insert into invoice values (null,4,7,3003,'2020-01-05','2020-01-08',1400);
insert into invoice values (null,7,7,3004,'2019-10-05','2019-10-11',1500);
insert into invoice values (null,8,8,3005,'2019-01-11','2019-01-28',10780);
insert into invoice values (null,9,7,3005,'2020-02-21','2020-02-25',2600);
insert into invoice values (null,10,7,3006,'2020-03-06','2020-03-08',900);
-----
insert into invoice values (null,11,7,3007,'2017-03-06','2017-03-09',1450);
insert into invoice values (null,12,7,3008,'2019-10-06','2019-10-10',100);
insert into invoice values (null,13,8,3009,'2019-10-15','2019-10-28',80);
insert into invoice values (null,14,7,3010,'2019-02-10','2019-02-25',80);
insert into invoice values (null,15,8,3011,'2019-02-18','2019-03-05',200);
insert into invoice values (null,16,7,3012,'2020-02-06','2020-02-15',2100);
select * from invoice;
---alter table invoice drop column discount;----

```



```
/*=====*/
```

```
/*          Inserting Dummy Data Table Branch          */
```

```
/*=====*/
```

```
insert into branch values (null,null,'Promotional Item shop Kabul','Afghanistan','Kabul','Kabul town hall',1005);
```

```
insert into branch values (null,null,'Promotional Item shop Herat','Afghanistan','Hearat','Herat town hall',1021);
```

```
update branch set HOD_EMPLOYEEID = 2 where branchID = 2 ;
```

```
update branch set HOD_EMPLOYEEID = 1 where branchID = 1 ;
```

```
select * from branch;
```

```
/*=====*/
```

```
/*          Inserting Dummy Data Table Employee          */
```

```
/*=====*/
```

```
insert into employee values (null,1,'Hill','Harrison','Ing','Head of Department','2005-01-15','Full time Permanet',50000,00937730560142,
```

```
                'hill24@gmail.com','Afghanistan','Kabul','kabul west 11 street',21400,'1980-04-08','M');
```

```
insert into employee values (null,2,'Andrea','Hismet','Ing','Head of Department','2006-01-15','Full time Permanet',50000,00937730560132,
```

```
                'andear41@gmail.com','Afghanistan','Herat','herat west 11 street',31100,'1990-08-08','F');
```

```
insert into employee values (null,1,'Jooh','Erikson','null','Manager','2005-01-15','Full time Permanet',45000,00937730560018,
```

```
                'jooh4@gmail.com','Afghanistan','Kabul','kabul 12 AD street',21440,'1993-04-08','M');
```

```
insert into employee values (null,1,'Edo','Zarang','null','Designer','2005-01-25','Full time Permanet',35000,00937730560000,
```

```
                'edo@gmail.com','Afghanistan','Kabul','kabul 9 old street',32145,'1999-04-08','F');
```

```
insert into employee values (null,2,'Zara','Hana','Ing','Designer','2005-01-20','Full time Permanet',35000,00937730560220,
```

```
                'zara@gmail.com','Afghanistan','Herat','Herat west street',32510,'1998-04-08','F');
```

```
insert into employee values (null,1,'Janis','Jawidi','artist','Painter','2005-01-15','Full time Permanet',33000,0093773045253,
```

```

        'janis@gmail.com','Afghanistan','Kabul','kabul 12 street',32400,'1990-04-08','M');
insert into employee values (null,1,'Danis','Darnish','null','Taking order','2005-01-15','Full time
Permanet',25000,00937730000142,
        'danis@gmail.com','Afghanistan','Kabul','west street 11',28800,'1980-04-08','M');
insert into employee values (null,2,'Bill','Klerk','null','Taking order','2005-01-15','Full time
Permanet',25000,00937730788142,
        'bill@gmail.com','Afghanistan','Herat','Herat 120',33300,'1980-04-08','M');

select * from employee;

/*=====*/
/*          Inserting Dummy Data Table Complaint          */
/*=====*/

insert into complaint values (7,null,'low quality of Engraving','the name tag logo is not much
visible','Repair','Confirmed');

insert into complaint values (9,null,'Not working','3D sleep light is not chanign it is
coloure','Repair','Confirmed');

select * from complaint;

/*=====*/
/*          Inserting Dummy Data Table Purchase          */
/*=====*/

insert into purchase values (null,11,100010,'2019-02-12',null);
insert into purchase values (null,12,100011,'2019-02-18',null);
insert into purchase values (null,13,100012,'2020-01-20',null);
insert into purchase values (null,14,100013,'2019-03-19',null);
-----customer with more then one time purchases-----
insert into purchase values (null,11,100014,'2019-02-12',null);
insert into purchase values (null,11,100015,'2017-03-12',null);
insert into purchase values (null,12,100016,'2019-05-12',null);
insert into purchase values (null,14,100017,'2020-01-12',null);

select * from purchase;

```

```

/*=====*/
/*          Inserting Dummy Data Table Supplier          */
/*=====*/

insert into supplier values (null,+865785022088,'alibaba@gmail.com','china','Hangzahou','Hangzhou
311121',969,null,5);

insert into supplier values (null,+937730580181,'afglt@gmail.com','Kabul','Afghanistan','Kabul
21',2001,null,3);

select * from supplier;

/*=====*/
/*          Inserting Dummy Data Table ItemType          */
/*=====*/

insert into itemtype values (null,'Pen','Writing Instruments','Standard',10,2,null,'Yes','No');
insert into itemtype values (null,'Marker','Writing Instruments','Standard',20,5,null,'Yes','No');
insert into itemtype values (null,'Headphones','Accessories','standerd',450,200,2,'No','Yes');
insert into itemtype values (null,'Envelope','Marketing','12x12 inches',30,05,null,'No','No');
insert into itemtype values (null,'Holiday Cards','Gift Marketing','10x10 inches',50,10,null,'No','No');
insert into itemtype values (null,'Menus','Marketing','8W x 12H',200,50,null,'Yes','No');
insert into itemtype values (null,'Business cards','Marketing',null,10,2,null,'Yes','No');
insert into itemtype values (null,'Custome Post-Card','Marketing','15x15 inches',20,2,null,'Yes','No');
insert into itemtype values (null,'Custom Banners','Marketing','medium',2500,500,1,'Yes','No');
insert into itemtype values (null,'Custom Banners','Marketing','large',3500,1000,1,'Yes','No');
insert into itemtype values (null,'Wallpaper','Marketing Home','medium',1500,500,null,'Yes','No');
insert into itemtype values (null,'Wallpaper','Marketing Home','large',2500,600,null,'Yes','No');
insert into itemtype values (null,'T-Shirt','Apparel',null,800,200,2,'Yes','No');
insert into itemtype values (null,'Cap','Apparel',null,350,100,2,'No','Yes');
insert into itemtype values (null,'Backpack','Apparel',null,1500,800,2,'Yes','No');
insert into itemtype values (null,'Sportpack','Apparel','S-M-L',1400,600,2,'No','Yes');
insert into itemtype values (null,'Wallet','Apparel','S-M-',1200,500,2,'Yes','No');
insert into itemtype values (null,'Coffee Mugs','Office Markiting',null,40,10,1,'Yes','No');

```

```

insert into itemtype values (null,'3D-Sleep light','Home','standerd',1350,500,2,'Yes','No');
insert into itemtype values (null,'Phone Case','Apparel',null,1200,800,2,'Yes','No');
insert into itemtype values (null,'Phone Screen protecion','Apparel',null,1200,800,2,'No','Yes');
insert into itemtype values (null,'Certificate','Achievments','standerd',1100,450,null,'Yes','No');
insert into itemtype values (null,'Picture frame','Wedding Gifts',null,200,50,null,'Yes','No');
insert into itemtype values (null,'Wine glass','Wedding Gifts','standerd',50,30,1,'Yes','No');
insert into itemtype values (null,'Champagne glass','Wedding Gifts','standerd',80,40,1,'Yes','No');
insert into itemtype values (null,'Clock','Home office Gifts','standerd',100,40,1,'Yes','No');
select * from itemtype;

```

```

/*=====*/
/*          Inserting Dummy Data Table Item          */
/*=====*/

```

```

insert into item values (null,10,null,1,13,'TSH-001-06');
insert into item values (null,11,null,1,19,'3D-002-06');
insert into item values (null,3,null,1,11,'WAL-003-05');
insert into item values (null,1,null,1,22,'CTF-004-08');
insert into item values (null,16,null,2,17,'WLT-005-09');
insert into item values (null,2,null,2,15,'BGP-006-15');
insert into item values (null,2,null,2,15,'BGP-007-16');
insert into item values (null,4,null,1,16,'SPB-008-05');
insert into item values (null,7,null,1,15,'BGP-006-05');
insert into item values (null,8,null,1,12,'WAL-007-11');
insert into item values (null,8,null,1,18,'CFM-008-21');
insert into item values (null,8,null,1,18,'CFM-009-21');
insert into item values (null,8,null,1,18,'CFM-010-21');
insert into item values (null,8,null,1,7,'BUC-011-21');
insert into item values (null,8,null,1,7,'BUC-012-20');
insert into item values (null,8,null,1,8,'CPC-013-21');
insert into item values (null,8,null,1,8,'CPC-014-21');

```

```

insert into item values (null,8,null,1,9,'CUB-015-21');
insert into item values (null,9,null,2,20,'PHC-016-21');
insert into item values (null,9,null,2,26,'CLK-017-21');
insert into item values (null,9,null,1,13,'HOC-018-21');
insert into item values (null,12,null,2,24,'WNG-019-12');
insert into item values (null,12,null,2,24,'WNG-020-17');
insert into item values (null,13,null,2,25,'CHG-021-12');
insert into item values (null,14,null,2,25,'CHG-022-19');
insert into item values (null,15,null,2,23,'PCF-023-12');
insert into item values (null,16,null,2,23,'PCF-024-13');
insert into item values (null,16,null,2,23,'PCF-025-12');
--- item which been bought by direct purchase ---
insert into item values (null,null,1,2,2,'MRK-026-12');
insert into item values (null,null,2,1,1,'PEN-027-18');
insert into item values (null,null,3,1,2,'MRK-028-20');
insert into item values (null,null,4,2,3,'HPH-029-19');
insert into item values (null,null,5,1,3,'HPH-030-18');
insert into item values (null,null,6,2,4,'ENV-031-09');
insert into item values (null,null,7,1,4,'ENV-032-19');
insert into item values (null,null,8,1,5,'HOD-033-10');
insert into item values (null,null,8,2,14,'CAP-034-19');
insert into item values (null,null,6,2,21,'PSP-035-07');
select * from item;

/*=====*/
/*          Inserting Dummy Data Table  AdjustmentType          */
/*=====*/

insert into adjustmenttype values (null,'printed','Easy',100);
insert into adjustmenttype values (null,'engraved','Average',200);

```

```

insert into adjustmenttype values (null,'painted','Tough',500);
insert into adjustmenttype values (null,'Decorated','Tough',500);
select * from adjustmenttype;

/*=====*/
/*      Inserting Dummy Data Table  Adjustment      */
/*=====*/

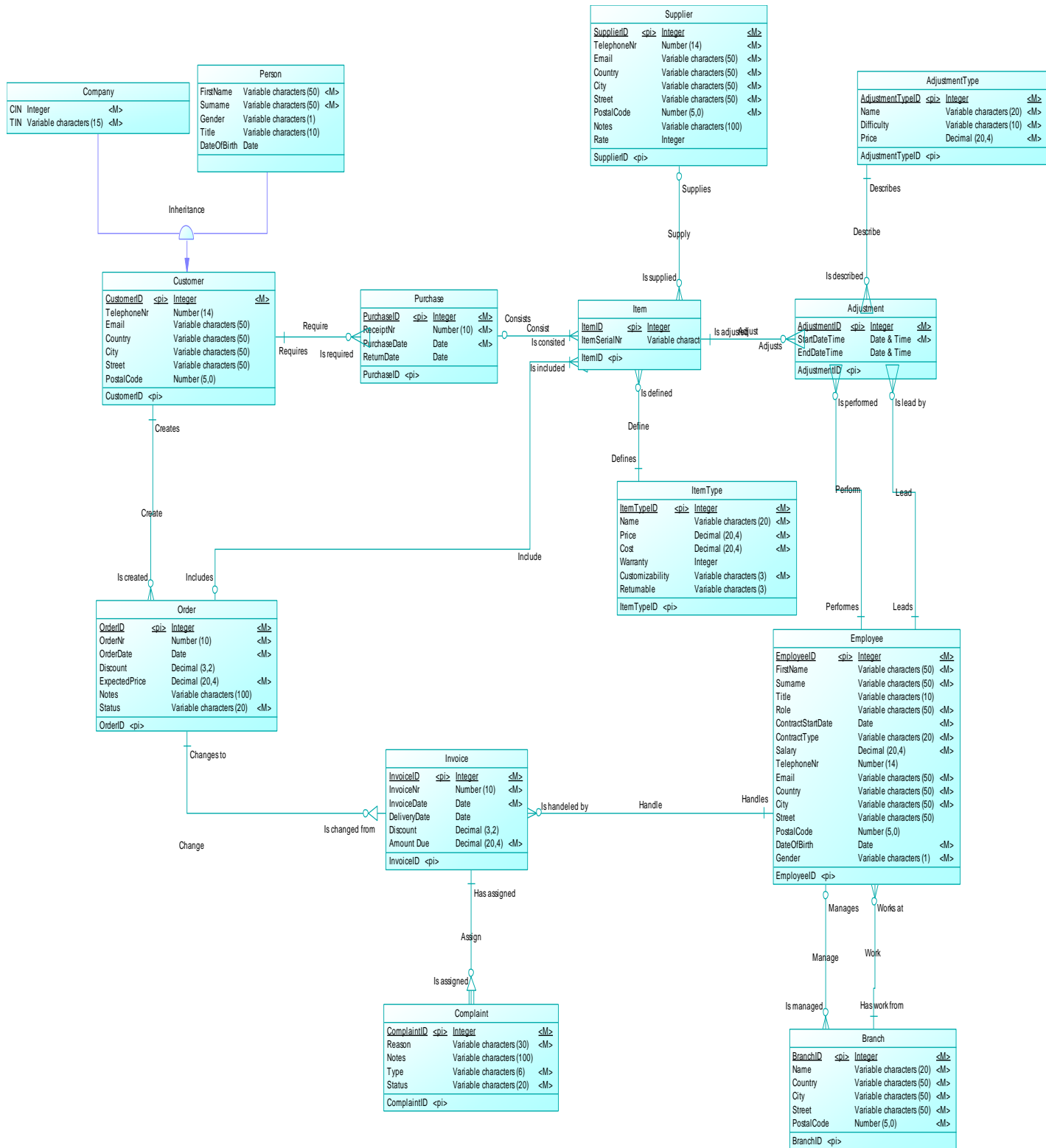
alter table adjustment modify startdatetime timestamp (9); ---Oracle Datetime--
alter table adjustment modify enddatetime timestamp (9);-- ---Oracle Datetime--

insert into adjustment values (null,4,3,1,1,(TO_DATE('2020-03-01 10:15:00', 'yyyy-mm-dd
hh24:mi:ss')), '2020-03-02 10:15:00');

insert into adjustment values (null,4,3,2,1,'2017-03-01 10:15:00','2017-03-02 10:20:00');
insert into adjustment values (null,5,3,3,2,'2020-02-03 10:00:00','2020-02-04 13:20:00');
insert into adjustment values (null,4,3,4,2,'2020-01-12 10:15:00','2020-01-16 15:00:00');
insert into adjustment values (null,4,3,5,3,'2020-02-12 10:15:00','2020-02-13 10:20:00');
insert into adjustment values (null,4,3,6,3,'2019-01-22 08:15:00','2019-01-25 10:20:00');
insert into adjustment values (null,5,3,10,3,'2019-01-25 10:15:00','2019-01-26 08:00:00');
insert into adjustment values (null,4,3,10,4,'2020-01-28 10:15:00','2020-01-29 09:20:00');
insert into adjustment values (null,5,3,11,3,'2019-10-05 10:15:00','2019-10-09 10:00:00');
insert into adjustment values (null,4,3,12,3,'2005-01-16 10:15:00','2005-01-17 10:20:00');
insert into adjustment values (null,5,3,13,3,'2019-03-01 10:15:00','2019-03-3 10:20:00');
insert into adjustment values (null,4,3,14,2,'2020-02-20 10:15:00','2020-02-22 10:20:00');
insert into adjustment values (null,5,3,15,2,'2019-02-19 10:15:00','2019-02-22 10:20:00');
insert into adjustment values (null,4,3,16,1,'2019-10-06 10:15:00','2019-10-08 10:20:00');
insert into adjustment values (null,5,3,17,1,'2019-10-22 10:15:00','2019-10-26 10:20:00');
insert into adjustment values (null,4,3,19,1,'2020-01-05 10:15:00','2020-01-07 10:20:00');
insert into adjustment values (null,4,3,20,2,'2020-01-12 10:15:00','2020-01-17 10:20:00');
insert into adjustment values (null,4,3,20,1,'2020-01-18 10:15:00','2020-01-19 10:20:00');

```

Conceptual data model



Physical data model

