Create database LPG

1. create table Cust\_Details (Id int primary key auto\_increment, Name varchar(50), Gender varchar(1), Address varchar(100), Phone\_NO bigint, Connection\_Type decimal(3,1), No\_Of\_Cylinders int);

create table Orders (Id int primary key auto\_increment, Date date, Cust\_Id int, Quantity int, Payment\_type varchar(30), Status varchar(30), foreign key(Cust\_Id) references Cust\_details(Id));

create table Cancelled\_Orders (Order\_Id int, Date date, Reason varchar(50), foreign key(Order\_Id) references Orders(Id));

create table Billing\_Details(Inv\_Id int Primary key auto\_increment, Date date, Order\_Id int, Delivery\_Status varchar(30), foreign key(Order\_Id) references Orders(Id));

create table Cancelled\_Bills (Inv\_Id int, Date date, Reason varchar(50), foreign key(Inv\_Id) references billing\_details(Inv\_Id));

create table Pricing (Type decimal(3,1), Month varchar(10), Year int, Price int);

1. **Cust\_Details**

insert into cust\_details (Name, Gender, Address, Phone\_No, Connection\_Type, No\_Of\_Cylinders) values ('Harish', 'M', '1-2, bglr', 1987654322, 14.2, 1);

insert into cust\_details (Name, Gender, Address, Phone\_No, Connection\_Type, No\_Of\_Cylinders) values ('Amisha', 'F', '32-12, bglr', 1614322387, 14.2, 1);

insert into cust\_details (Name, Gender, Address, Phone\_No, Connection\_Type, No\_Of\_Cylinders) values ('Ujjawal', 'M', '19-0, gurgaon', 1871614322, 14.2, 1);

insert into cust\_details (Name, Gender, Address, Phone\_No, Connection\_Type, No\_Of\_Cylinders) values ('Anu', 'F', '2-10, hyd', 1000614322, 19.0, 5);

insert into cust\_details (Name, Gender, Address, Phone\_No, Connection\_Type, No\_Of\_Cylinders) values ('Rakshitha', 'F', '3-1-3, chennai', 1614322551, 19.0, 10);

insert into cust\_details (Name, Gender, Address, Phone\_No, Connection\_Type, No\_Of\_Cylinders) values ('Varuni', 'F', '10-4, gurgaon', 1432245789, 14.2, 1);

insert into cust\_details (Name, Gender, Address, Phone\_No, Connection\_Type, No\_Of\_Cylinders) values ('Vamshi', 'M', '31-14, hyd', 14433245789, 19.0, 6);

**Orders**

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-10-01', 6, 1, 'online', 'cancelled');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-10-01', 3, 1, 'POD', 'Ordered');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-10-02', 5, 4, 'POD', 'Cancelled');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-10-03', 6, 1, 'POD', 'Ordered');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-10-04', 3, 1, 'Online', 'Ordered');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-11-05', 6, 1, 'Online', 'Ordered');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-11-06', 4, 4, 'Online', 'Ordered');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-11-07', 5, 9, 'POD', 'Ordered');

insert into orders (Date, Cust\_Id, Quantity, Payment\_type, Status) values('2021-11-09', 7, 5, 'Online', 'Ordered');

**Cancelled Orders**

insert into cancelled\_orders values(1, '2021-10-02', 'Out of Station');

insert into cancelled\_orders values(3, '2021-10-03', 'Mistakenly Ordered');

**Billing\_details**

insert into billing\_details(Date, Order\_Id, Delivery\_Status) values ('2021-10-03', 1, 'Delivered');

insert into billing\_details(Date, Order\_Id, Delivery\_Status) values ('2021-10-03', 2, 'Undelivered');

insert into billing\_details(Date, Order\_Id, Delivery\_Status) values ('2021-10-04', 4, 'Delivered');

insert into billing\_details(Date, Order\_Id, Delivery\_Status) values ('2021-10-06', 5, 'Delivered');

insert into billing\_details(Date, Order\_Id, Delivery\_Status) values ('2021-11-06', 6, 'Delivered');

insert into billing\_details(Date, Order\_Id, Delivery\_Status) values ('2021-11-06', 7, 'Delivered');

insert into billing\_details(Date, Order\_Id, Delivery\_Status) values ('2021-11-08', 8, 'Delivered');

**Cancelled\_Bills**

insert into cancelled\_bills values(2, '2021-10-04', 'Insufficient Amount');

**Pricing**

insert into pricing values(14.2, 'January', 2021, 925);

insert into pricing values(19.0, 'January', 2021, 1223);

insert into pricing values(5.0, 'January', 2021, 352);

insert into pricing values(14.2, 'February', 2021, 931);

insert into pricing values(19.0, 'February', 2021, 1025);

insert into pricing values(5.0, 'February', 2021, 361);

insert into pricing values(14.2, 'March', 2021, 910);

insert into pricing values(19.0, 'March', 2021, 1225);

insert into pricing values(5.0, 'March', 2021, 365);

insert into pricing values(14.2, 'April', 2021, 942);

insert into pricing values(19.0, 'April', 2021, 1300);

insert into pricing values(5.0, 'April', 2021, 330);

insert into pricing values(14.2, 'May', 2021, 942);

insert into pricing values(19.0, 'May', 2021, 1280);

insert into pricing values(5.0, 'May', 2021, 333);

insert into pricing values(14.2, 'June', 2021, 958);

insert into pricing values(19.0, 'June', 2021, 1283);

insert into pricing values(5.0, 'June', 2021, 320);

insert into pricing values(14.2, 'July', 2021, 950);

insert into pricing values(19.0, 'July', 2021, 1295);

insert into pricing values(5.0, 'July', 2021, 330);

insert into pricing values(14.2, 'August', 2021, 947);

insert into pricing values(19.0, 'August', 2021, 1298);

insert into pricing values(5.0, 'August', 2021, 337);

insert into pricing values(14.2, 'September', 2021, 963);

insert into pricing values(19.0, 'September', 2021, 1306);

insert into pricing values(5.0, 'September', 2021, 340);

insert into pricing values(14.2, 'October', 2021, 960);

insert into pricing values(19.0, 'October', 2021, 1310);

insert into pricing values(5.0, 'October', 2021, 347);

insert into pricing values(14.2, 'November', 2021, 970);

insert into pricing values(19.0, 'November', 2021, 1313);

insert into pricing values(5.0, 'November', 2021, 350);

insert into pricing values(14.2, 'December', 2021, 974);

insert into pricing values(19.0, 'December', 2021, 1320);

insert into pricing values(5.0, 'December', 2021, 362);

insert into pricing values(14.2,January, 2022, 999);

insert into pricing values(19.0, 'January', 2022, 1309);

insert into pricing values(5.0, 'January', 2022, 359);

1. select C.Name, C.Connection\_Type, Q.No\_of\_cylinders from Cust\_Details as C inner join

(select Cust\_Id, sum(Quantity) as no\_of\_cylinders from orders where status = 'ordered' group by cust\_Id)

as Q on C.Id = Q.cust\_id;

select a.Cust\_Id, a.Name, a.no\_of\_cylinders, a.Connection\_Type from

(select C.Id as Cust\_Id, C.Name, P.no\_of\_cylinders, C.Connection\_Type,

rank() over(partition by C.Connection\_Type order by P.no\_of\_cylinders desc) as rnk

from Cust\_Details as C inner join

(select Cust\_Id, sum(Quantity) as no\_of\_cylinders from orders where status = 'ordered' group by cust\_Id)

as P on P.Cust\_Id = C.Id

) a

where a.rnk=1;

1. select Cust\_Id, Successfully\_Delivered,

Case

when Successfully\_Delivered >= 8 then 'Highly Valued'

when Successfully\_Delivered between 5 and 7 then 'Moderately Valued'

Else 'Low Valued'

End as Value from

(select O.Cust\_Id, sum(O.Quantity) as Successfully\_Delivered from Orders as O inner join

(select Order\_Id from billing\_details where delivery\_status = 'Delivered')

as P on P.Order\_Id = O.Id group by Cust\_Id)

as Q;

// enter the below code in stored procedure and save it

1. CREATE PROCEDURE PriceOfCurrentMonth()

Begin

select \* from Pricing where (Month, Year) In (select monthname(curdate()) as Month, year(curdate()) as Year);

End

// in the editor, execute the below line

call PriceOfCurrentMonth;

1. select C.Id as Cust\_Id, C.Name, Q.Last\_Delivery\_Date, Q.Quantity from cust\_details as C inner join

(select cust\_id, max(Delivery\_Date) as Last\_Delivery\_Date, Quantity from

(select O.id, O.cust\_id, O.Quantity,D.Delivery\_Date from orders as O inner join

(select Order\_Id, date as Delivery\_Date from billing\_details where Delivery\_Status = 'Delivered')

as D on O.id = D.Order\_id)

as P group by (cust\_id))

as Q on Q.cust\_id = C.Id

order by cust\_id;

1. select C.Id as Cust\_Id, C.Name, R.Cancelled\_Bill\_Date, R.Reason from cust\_details as C inner join

(select cust\_id, Cancelled\_Bill\_Date, Reason from orders as O inner join

(select B.order\_id, P.Date as Cancelled\_Bill\_Date, P.Reason from billing\_details as B inner join

(select \* from cancelled\_bills)

as P on P.Inv\_Id = B.Inv\_Id)

as Q on Q.order\_id = O.Id)

as R on R.cust\_id = C.Id;

1. select C.Id, C.Name, R.Cancelled\_Order\_Date, R.Reason from cust\_details as C inner join

(select O.cust\_id, Q.Cancelled\_Order\_Date, Q.Reason from orders as O inner join (select O.Id, P.Date as Cancelled\_Order\_Date, P.Reason from orders as O inner join (select \* from cancelled\_orders)

as P on P.Order\_Id = O.Id)

as Q on Q.Id = O.Id)

as R on R.cust\_id = C.Id;

**ER-Diagram:**

