a) Answer the following Question for the **DBS211_CUSTOMERS** table.

1) How many columns (attributes) are there in this table? _____13_____

2) How many rows are there in this table? _____122_____

3) List the table's columns and the requested information in the following format:

Column Name	Type	Not Null
CUSTOMERNUMBER	NUMBER	No
CUSTOMERNAME	VARCHAR2	No
CONTACTLASTNAME	VARCHAR2	No
CONTACTFIRSTNAME	VARCHAR2	No
PHONE	VARCHAR2	No
ADDRESSLINE1	VARCHAR2	No
ADDRESSLINE2	VARCHAR2	Yes
CITY	VARCHAR2	No
STATE	VARCHAR2	Yes
POSTALCODE	VARCHAR2	Yes
COUNTRY	VARCHAR2	No
SALESREPEMPLOYEENUMBER	NUMBER	Yes
CREDITLIMIT	NUMBER	Yes

4) Sort the data based on the third column in your table and write the data of the first row in the following format: (Make sure **CHATACTER** type values are enclosed in 'single quotes'.)

Column Name	Column Value
CUSTOMERNUMBER	249
CUSTOMERNAME	Amica Models "&" Co.
CONTACTLASTNAME	Accorti
CONTACTFIRSTNAME	Paolo
PHONE	011-4988555
ADDRESSLINE1	Via Monte Bianco 34
ADDRESSLINE2	

CITY	Torino
STATE	
POSTALCODE	10100
COUNTRY	Italy
SALESREPEMPLOYEENUMBER	1401
CREDITLIMIT	113000

5) List all constraints in this table.

If a constraint is a foreign key, write the reference table.

Constraint Name	Constraint Type	Constraint on Column	Constraint Condition	Reference Table
CUST_SALESREP_FK	Foreign_Key			DBS211_EMPLOYEES
SYS_C003570910	Check		"CUSTOMERNUMBER" IS NOT NULL	
SYS_C003570911	Check		"CUSTOMERNAME" IS NOT NULL	
SYS_C003570912	Check		"CONTACTLASTNAME" IS NOT NULL	
SYS_C003570913	Check		"CONTACTFIRSTNAME" IS NOT NULL	
SYS_C003570914	Check		"PHONE" IS NOT NULL	
SYS_C003570915	Check		"ADDRESSLINE1" IS NOT NULL	
SYS_C003570916	Check		"CITY" IS NOT NULL	
SYS_C003570917	Check		"COUNTRY" IS NOT NULL	
SYS_C003570918	Primary Key			

6) What tables are in relationship with this table? List them below.

Table Name	Column in Common
DBS211_EMPLOYEES	
DBS211_PAYMENTS	
DBS211_ORDERS	

7) What is the model for this table relationships?

NOTE: ∨ means MANY

↓ means ONE
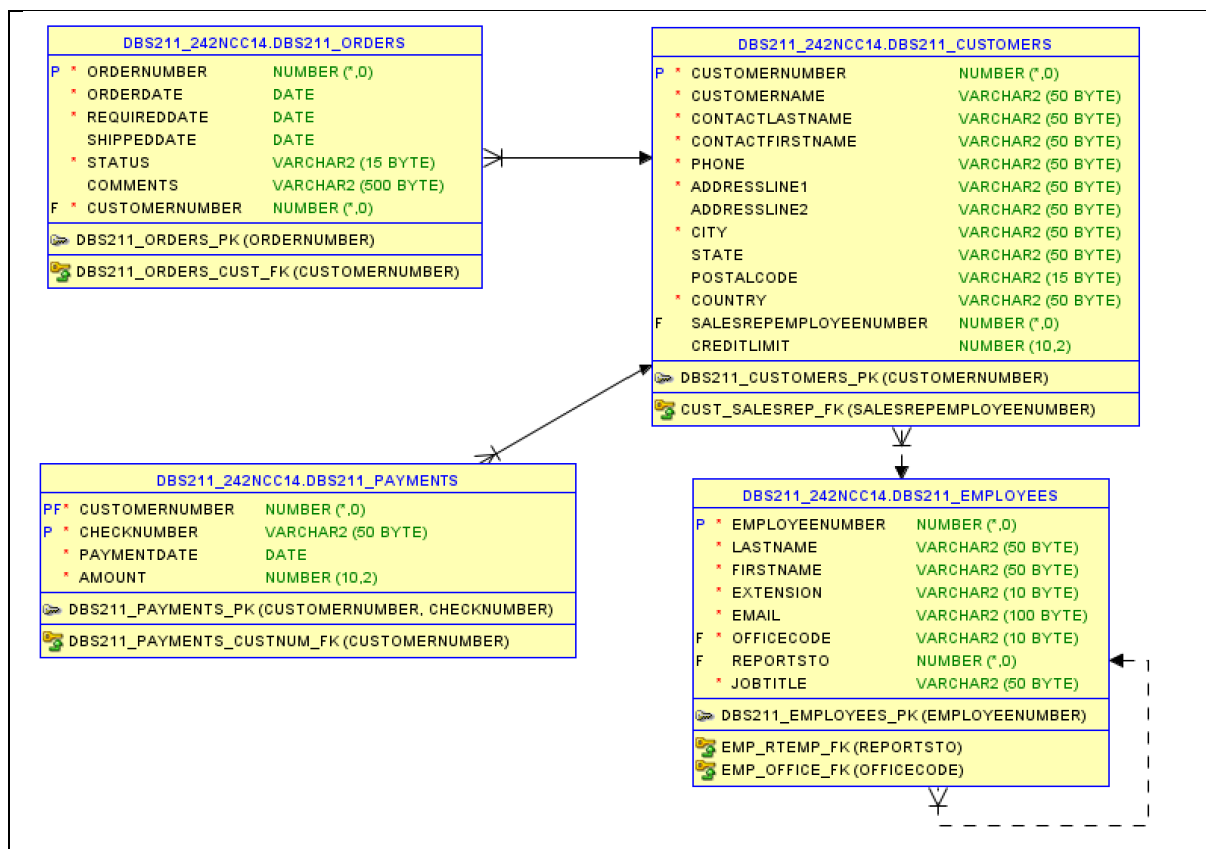
8) Translate all the relationships in Question 7 (model) to English.

A customer has many orders and payments.

An order refers to one customer.

A payment refers to one customer.

An employee has many customers.

An employee refers to one employee.

b) Answer the following Question for the **DBS211_EMPLOYEES** table.

1) How many columns (attributes) are there in this table? _____8_____

2) How many rows are there in this table? _____122_____

3) List the table's columns and the requested information in the following format:

Column Name	Type	Not Null
EMPLOYEENUMBER	NUMBER	N
LASTNAME	VARCHAR2	N
FIRSTNAME	VARCHAR2	N
EXTENSION	VARCHAR2	N
EMAIL	VARCHAR2	N
OFFICECODE	VARCHAR2	N
REPORTSTO	NUMBER	Y
JOBTITLE	VARCHAR2	N

4) Sort the data based on the third column in your table and write the data of the first row in the following format: (Make sure **CHATACTER** type values are enclosed in single quotes.)

Column Name	Column Value
EMPLOYEENUMBER	1611
LASTNAME	Fixter
FIRSTNAME	Andy
EXTENSION	x101
EMAIL	afixter@classicmodelcars.com
OFFICECODE	6
REPORTSTO	1088
JOBTITLE	Sales Rep

5) List all constraints in this table.

   If a constraint is a foreign key, write the reference table.

Constraint Name	Constraint Type	Constraint on Column	Constraint Condition	Reference Table
EMP_OFFICE_FK	Foreign_Key			DBS211_OFFICES
EMP_RTEMP_FK	Foreign_Key			DBS211_EMPLOYEES
SYS_C003570900	Check		"EMPLOYEENUMBER" IS NOT NULL	
SYS_C003570901	Check		"LASTNAME" IS NOT NULL	
SYS_C003570902	Check		"FIRSTNAME" IS NOT NULL	
SYS_C003570903	Check		"EXTENSION" IS NOT NULL	
SYS_C003570904	Check		"EMAIL" IS NOT NULL	
SYS_C003570905	Check		"OFFICECODE" IS NOT NULL	
SYS_C003570906	Check		"JOBTITLE" IS NOT NULL	
SYS_C003570907	Primary Key			

6) What tables are in relationship with this table? List them below.

Table Name	Column in Common
DBS211_EMPLOYEES	
DBS211_OFFICES	
DBS211_CUSTOMERS	

7) What is the model for this table relationships?

NOTE: V means MANY

$\downarrow$ means ONE
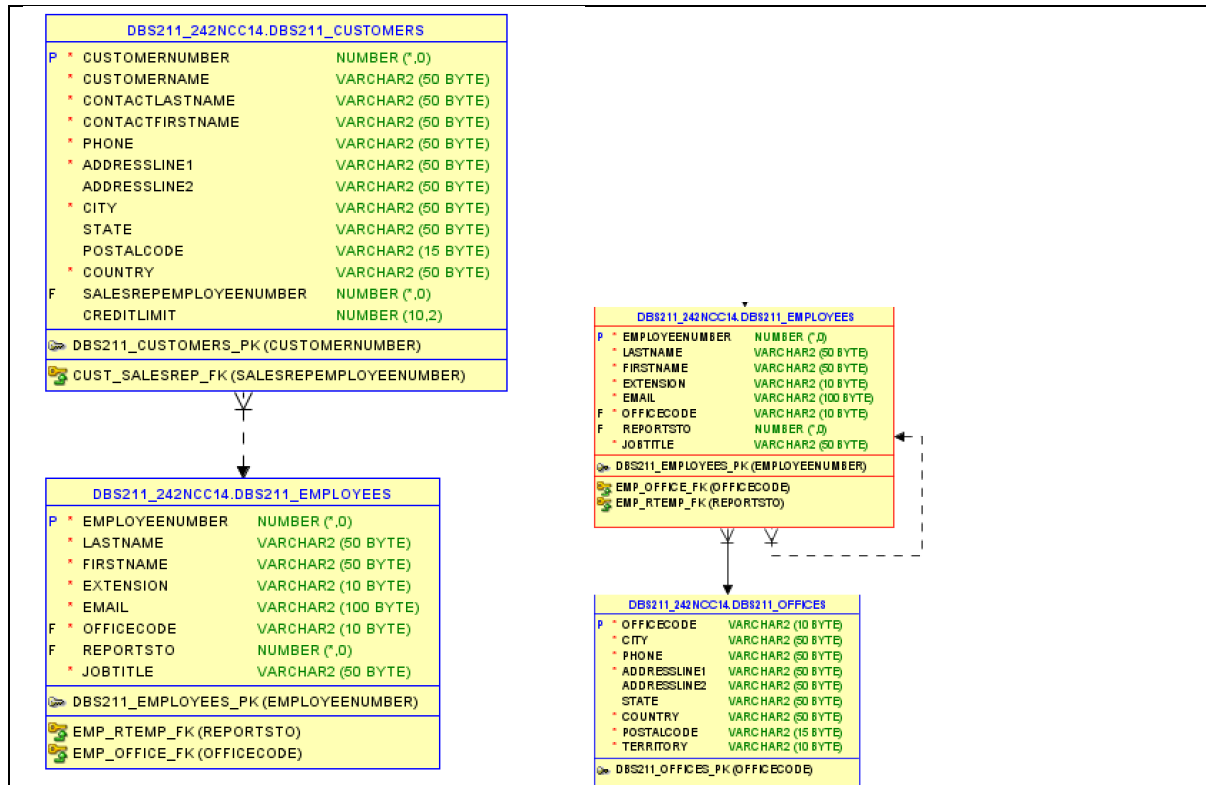
8) Translate all the relationships in Question 7 (model) to English.

An employee has many customers.

An employee has many offices.

An employee refers to one employee.

c) Answer the following Question for the **DBS211_ORDERS** table.

1) How many columns (attributes) are there in this table? _____7_____

2) How many rows are there in this table? _____122_____

3) List the table's columns and the requested information in the following format:

Column Name	Type	Not Null
ORDERNUMBER	NUMBER	N
ORDERDATE	DATE	N
REQUIREDDATE	DATE	N
SHIPPEDDATE	DATE	Y
STATUS	VARCHAR2	N
COMMENTS	VARCHAR2	Y
CUSTOMERNUMBER	NUMBER	N

4) Sort the data based on the third column in your table and write the data of the first row in the following format: (Make sure **CHATACTER** type values are enclosed in single quotes.)

Column Name	Column Value
ORDERNUMBER	10100
ORDERDATE	06-JAN-03
REQUIREDDATE	13-JAN-03
SHIPPEDDATE	10-JAN-03
STATUS	Shipped
COMMENTS	
COMMENTS	363

5) List all constraints in this table.

If a constraint is a foreign key, write the reference table.

Constraint Name	Constraint Type	Constraint on Column	Constraint Condition	Reference Table
DBS211_ORDERS_CUST_FK	Foreign_Key			DBS211_CUSTOMERS
SYS_C003570933	Check		"ORDERNUMBER" IS NOT NULL	
SYS_C003570934	Check		"ORDERDATE" IS NOT NULL	
SYS_C003570935	Check		"REQUIREDDATE" IS NOT NULL	
SYS_C003570936	Check		"STATUS" IS NOT NULL	
SYS_C003570937	Check		"CUSTOMERNUMBER" IS NOT NULL	
SYS_C003570938	Primary Key			

6) What tables are in relationship with this table? List them below.

Table Name	Column in Common	Refers to
DBS211_CUSTOMERS		
DBS211_ORDERDEATILS		

7) What is the model for this table relationships?
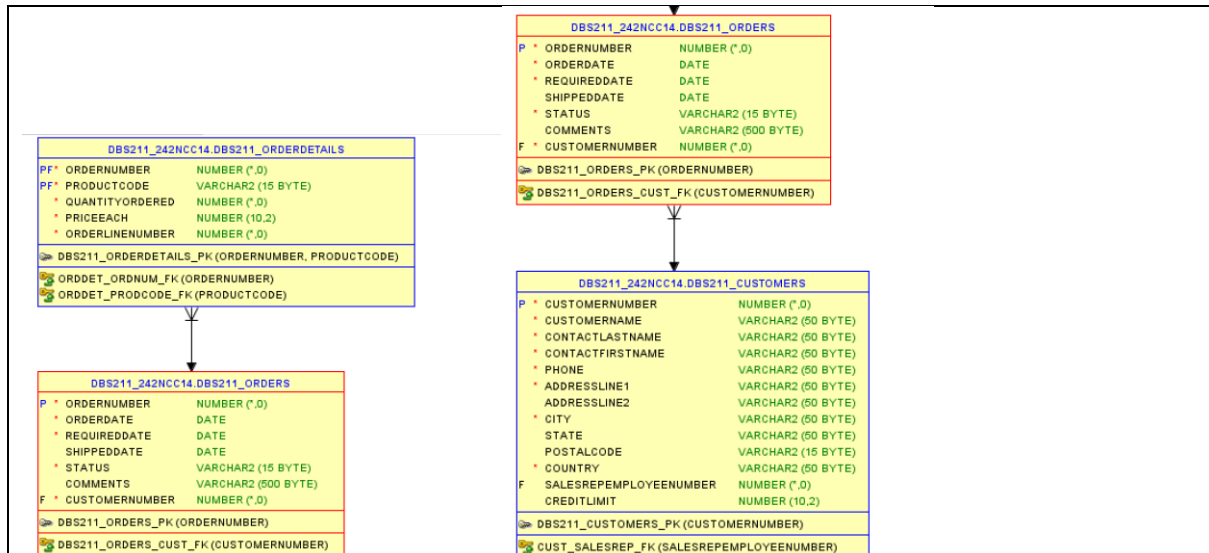
NOTE: V means MANY

⬇ means ONE

8) Translate all the relationships in Question 7 (model) to English.

A customer has many orders.
An order has many orderdetails.