2_1

```sql
create database Empresa_xxx
go
use Empresa_xxx
go

create table ciudades
(id_ciu int primary key,nom varchar(100))

create table articulos
(id_arti int primary key, nom varchar(100), id_ciu int foreign key references ciudades(id_ciu))

create table componentes
(id_comp varchar(100) primary key, nom varchar(100), color varchar(100),peso int, id_ciu int
foreign key references ciudades(id_ciu))

create table proveedores
(id_prove int primary key, nom varchar(100), categoria varchar(100), id_ciu int foreign key
references ciudades(id_ciu))

create table envios
(id_env int primary key, id_prove int foreign key references proveedores(id_prove),
id_comp varchar(100) foreign key references componentes(id_comp), id_arti int foreign key
references articulos(id_arti),
cantidad int, fecha_envio datetime)

insert into ciudades
(id_ciu,nom) values (001,'Barranquilla'),(002,'Medellin'),(003,'Cali'),(004,'Bogota')

insert into articulos
(id_arti,nom,id_ciu) values
(100,'Clasificadora',001),(200,'Perforadora',002),(300,'Letora',003),(400,'Consola',004),(500,'
Mescladora',001),
(600,'Terminal',002),(700,'Cinta',003),(800,'Clasificadora',004),(900,'Perforadora',004),(1000,
'Lectora',001)

insert into componentes
(id_comp,nom,color,peso,id_ciu) values
('C1','X3A','Rojo',12,001),('C2','B85','Verde',17,002),('C3','C4B','Azul',17,003),
('C4','VT8','Morado',20,004),('C5','C30','Amarillo',30,001),('C6','X3A','Rojo',54,002),('C7','B86'
,'Azul',28,004),('C8','C4B','Morado',10,004),
('C9','Vt9','Morado',23,004),('C10','C31','Amarillo',30,001)

insert into proveedores
(id_prove,nom,categoria,id_ciu) values (1,'Andres Verjal',10,001),(2,'Carlos
Villareal',20,002),(3,'Julian Jaramillo',30,003),
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(4,'Jose Perez',40,004),(5,'Andres Morales',10,001),(6,'Eva Braunt',20,002),(7,'Christian Mejia',30,003),(8,'Natalia Mendoza',40,004),
(9,'Daniel Ruiz',40,004)

```
insert into envios
(id_env, id_prove,id_comp,id_arti,cantidad,fecha_envio)
values
(1, 1,'C1', 100, 100, '13/01/2009 12:00:00'),
(2, 2,'C2', 200, 200, '15/03/2009 12:00:00'),
(3, 3,'C3', 300, 300, '15/06/2009 12:00:00'),
(4, 4,'C4', 400, 400, '20/01/2009 12:00:00'),
(5, 5,'C5', 500, 5000, '13/06/2009 12:00:00'),
(6, 6,'C6', 600, 4560, '20/03/2009 12:00:00'),
(7, 7,'C7', 700, 100, '15/01/2009 12:00:00'),
(8, 8,'C8', 800, 200, '13/06/2009 12:00:00'),
(9, 9,'C9', 900, 300, '15/01/2009 12:00:00'),
(10, 1,'C10',1000, 400, '20/06/2009 12:00:00'),
(11, 2,'C1', 100, 5000, '30/12/2009 12:00:00'),
(12, 3,'C2', 200, 4560, '20/01/2009 12:00:00'),
(13, 4,'C3', 300, 300, '30/03/2009 12:00:00'),
(14, 5,'C4', 400, 400, '13/01/2009 12:00:00'),
(15, 6,'C5', 500, 5000, '15/03/2009 12:00:00'),
(16, 7,'C6', 600, 4560, '13/01/2009 12:00:00'),
(17, 8,'C7', 700, 100, '20/06/2009 12:00:00'),
(18, 9,'C8', 800, 200, '13/01/2009 12:00:00'),
(19, 1,'C9', 900, 300, '30/06/2009 12:00:00'),
(20, 2,'C10', 1000, 400, '20/01/2009 12:00:00'),
(21, 3,'C1', 100, 5000, '30/12/2009 12:00:00'),
(22, 4,'C2', 200, 4560, '15/03/2009 12:00:00'),
(23, 5,'C3', 300, 100, '30/12/2009 12:00:00'),
(24, 6,'C4', 400, 200, '20/06/2009 12:00:00'),
(25, 7,'C5', 500, 300, '30/12/2009 12:00:00'),
(26, 8,'C6', 600, 400, '15/03/2009 12:00:00'),
(27, 9,'C7', 700, 5000, '30/12/2009 12:00:00')

--punto 1
select distinct id_ciu, categoria from proveedores

--punto 2
select *from proveedores where id_ciu= 001 or id_ciu=004

--punto 3
select nom,peso from componentes where nom='X3A' and  peso between 20 and 60

--punto 4
select cantidad, nom
from envios
inner join articulos on envios.id_arti=articulos.id_arti
```

```
where id_ciu=1

--punto 5
select id_comp,cantidad from envios

--punto 6
select cantidad, nom, color
from envios
inner join componentes on envios.id_comp=componentes.id_comp
where color like 'A%'

--punto 7
SELECT nom, peso FROM  componentes
WHERE peso > (SELECT AVG(peso) FROM componentes)

SELECT AVG(peso) AS Peso
FROM componentes

--punto 8
select nom, peso from componentes where peso>20

--punto 9
select * from componentes where id_comp between 'c3' and 'c8'

--punto 10
select * from envios where fecha_envio between '1/06/2009 00:00:00' and '19/05/2023
00:00:00'

--punto 11
select nom, fecha_envio from envios e
inner join  proveedores p on p.id_prove=e.id_prove
where fecha_envio between '1/01/2009 00:00:00' and '31/05/2009 00:00:00'

--punto 12
SELECT UPPER(nom) as PROVEEDORES FROM proveedores

--punto 13
select nom from articulos where len(nom)>10

--punto 14
select cantidad, nom
from envios
inner join articulos on envios.id_arti=articulos.id_arti
where nom like 'C%'

--punto 15
select cantidad,nom,fecha_envio
from envios e
```

```sql
inner join componentes c
on c.id_comp=e.id_comp where fecha_envio>'01/03/2009'

--punto 16
select count(id_arti) as Cantidad_Articulo from articulos

--punto 17
select  count(cantidad) as Cantidad, fecha_envio from envios group by fecha_envio

--punto 18
select avg(cantidad) as Promedio, fecha_envio
from (select fecha_envio, count(*) as cantidad
from envios group by fecha_envio) as consulta
group by fecha_envio;

--punto 19
select count(YEAR(fecha_envio)) as envios_2009 from envios group by YEAR(fecha_envio)

--punto 20
select fecha_envio, max(cantidad) as cantidad_maxima from envios group by fecha_envio
```