**S.I.G.A.T**

***Base de Datos II***

**BinaSoft**

|  |  |  |  |  |  |
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**1. Introducción**

Se realizara un programa que permita llevar el control de varios establecimientos productores de leche, pertenecientes a una cooperativa, de manera que le permita a los usuarios del mismo consultar datos de los establecimientos, animales y su producción, eventos y de los propios usuarios, llevar un control de la producción lechera y de los animales y le ayude a tomar decisiones para mejorar el rendimiento del tambo.

Este documento consta con la presentación de la base de datos utilizada para dicho programa. Contiene el Modelo conceptual, el Diseño Entidad-Relación, pasaje a tablas, normalización, un diccionario de datos para la mejor comprensión de los datos, estudio de los roles de usuarios y que permisos tendrán sobre cada tabla según sus roles, el archivo “dbexport” impreso, además de las sentencias sql de permisos sobre dichos usuarios.

**2. Modelo conceptual (MER)**

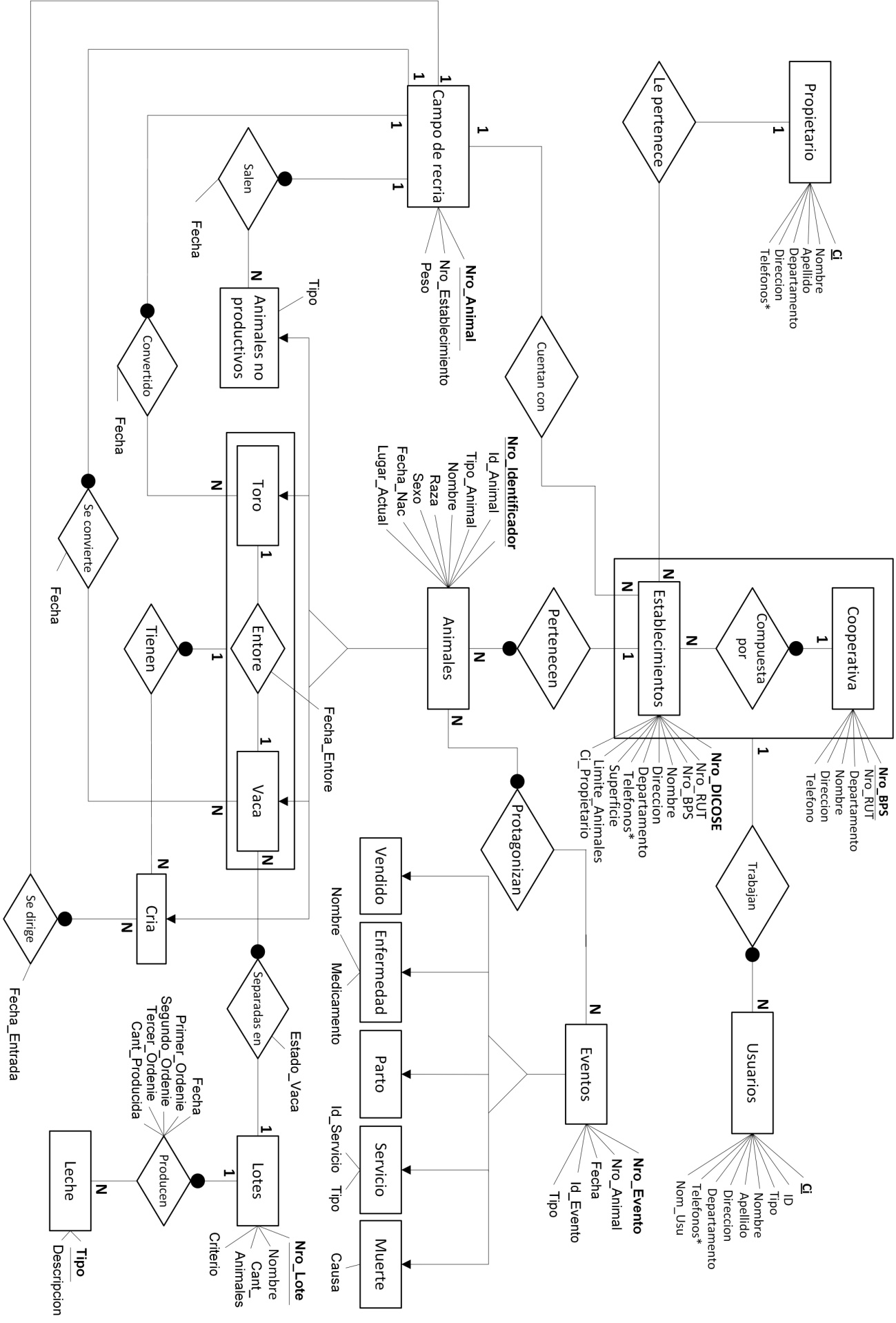
**2.1. D.E.R**

El siguiente diseño Entidad-Relación fue realizado en el programa Visio 2016. El archivo de visualización se incluye en el DVD de la carpeta.

El modelo será impreso en la próxima hoja en tamaño completo para su mejor visualización.

CORRECCIÓNES:

* Se quitan las entidades (Productores, Clientes, Servicios)
* Se agregan Eventos
* Se agrega la totalidad
* Cambios en claves primarias, foráneas y otros datos.



**2.2. Esquema Relacional**

**2.2.1. Pasaje a tablas**

**- Entidades**

Cooperativa (**Nro\_BPS**, Nro\_RUT, Departamento, Nombre, Dirección, Telefono)

Establecimientos (**Nro\_DICOSE**, Nro\_RUT, Nro\_BPS, Nombre, Direccion, Departamento, Telefonos\*, Superficie, Limite\_Animales, Ci\_Propietario)

Usuarios (**CI**, ID, Tipo, Nombre, Apellido, Direccion, Departamento, Telefonos\*, Nombre\_Usu, Nro\_DICOSE)

Propietario (**CI**, Nombre, Apellido, Departamento, Dirección, Teléfonos\*)

Eventos (**Nro\_Evento**, Nro\_Animal, Fecha, Id\_Evento, Tipo)

Vendido (**Nro\_Evento**)

Enfermedad (**Nro\_Evento,** Nombre, Medicamento)

Parto (**Nro\_Evento**)

Servicio (**Nro\_Evento,** Id\_Servicio, Tipo)

Muerte (**Nro\_Evento,** Causa)

Animales (**Nro\_Identificador**, Id\_Animal, Tipo\_Animal, Nombre, Raza, Sexo, Fecha\_Nac, Lugar\_Actual, Nro\_DICOSE)

Animales no Productivos (**Nro\_Identificador**, Tipo)

Toro (**Nro\_Identificador**)

Vaca (**Nro\_Identificador**)

Cría (**Nro\_Identificador**)

Campo de Recría (**Nro\_Animal**, Nro\_Establecimiento, Peso)

Lotes (**Nro\_Lote**, Nombre, Cant\_Animales, Criterio)

Leche (**Tipo**, Descripción)

**- Relaciones**

Compuesta por (**Nro\_BPS**, Nro\_DICOSE)

Le Pertenece (**Nro\_DICOSE**, Ci)

Cuentan con (**Nro\_DICOSE**, Nro\_Animal)

Protagonizan (**Nro\_Identificador**, **Nro\_Evento**)

Entore (**Nro\_Identificador\_Toro, Nro\_Identificador\_Vaca**, Fecha\_Entore)

Tienen (**Nro\_Identificador\_Toro, Nro\_Identificador\_Vaca**, **Nro\_Identificador\_Cria**)

Salen (**Nro\_Identificador**, Fecha, Tipo)

Convertido (**Nro\_Identificador**, Fecha)

Se convierte (**Nro\_Identificador**, Fecha)

Se dirige (**Nro\_Identificador**, Fecha)

Separadas en (**Nro\_Identificador**, Estado\_Vaca, Nro\_Lote)

Producen (Tipo, **Nro\_Lote**, **Fecha**, Primer\_Ordenie, Segundo\_Ordenie, Tercer\_Ordenie, Cant\_Producida)

**2.2.2. Normalización**

Cooperativa (**Nro\_BPS**, Nro\_RUT, Departamento, Nombre, Dirección, Telefono)

Establecimientos (**Nro\_DICOSE**, Nro\_RUT, Nro\_BPS, Nombre, Direccion, Departamento, Superficie, Limite\_Animales, Ci\_Propietario)

Telefonos Establecimiento (**Nro\_DICOSE, Telefono**)

Usuarios (**CI**, ID, Nombre, Apellido, Direccion, Departamento, Nombre\_Usu, Nro\_DICOSE)

Tipos de usuario (**ID**,Tipo)

Telefonos Usuario (**CI**, **Telefono**)

Propietario (**CI**, Nombre, Apellido, Departamento, Dirección)

Telefonos Propietario (**CI**, **Telefono**)

Eventos (**Nro\_Evento**, Nro\_Animal, Fecha, Id\_Evento)

Tipos de eventos (**Id\_Evento**, Tipo)

Vendido (**Nro\_Evento**)

Enfermedad (**Nro\_Evento,** Nombre, Medicamento)

Parto (**Nro\_Evento**)

Servicio (**Nro\_Evento,** Id\_Servicio)

Tipos de servicio (**Id\_Servicio**, Tipo)

Muerte (**Nro\_Evento,** Causa)

Animales (**Nro\_Identificador**, Id\_Animal, Nombre, Raza, Sexo, Fecha\_Nac, Lugar\_Actual, Nro\_DICOSE)

Tipos de animales (**Id\_Animal**, Tipo)

Animales no Productivos (**Nro\_Identificador**, Tipo)

Toro (**Nro\_Identificador**)

Vaca (**Nro\_Identificador**)

Cría (**Nro\_Identificador**)

Campo de Recría (**Nro\_Animal**, Nro\_Establecimiento, Peso)

Lotes (**Nro\_Lote**, Nombre, Cant\_Animales, Criterio)

Leche (**Tipo**, Descripción)

**3. R.N.E**

1- La superficie se mide en Hectáreas.

2- La cantidad de leche producida se mide en litros.

3- Los costos e ingresos se valúan en Pesos Uruguayos.

4- Los tipos de usuarios son: Administrador del Sistema, Gerente Administrador, Administrador de un Establecimiento y Auxiliar.

5- La fecha de ingreso de la cría al campo de recría debe ser mayor que la fecha de nacimiento de la misma.

6- La fecha de salidas de los animales del campo de recría debe ser mayor que la fecha de ingreso de los mismos.

7- La fecha de muerte de un animal debe no puede ser menor que su fecha de nacimiento.

8- La fecha en la que se vende un animal debe ser mayor o igual que su fecha de nacimiento.

**4. Diccionario de Datos**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Entidad | Atributo | Llave | Tipo | Largo | Descripción |
| Cooperativa | Nro\_BPS | PK | Int | 10 | Numero de BPS |
| Nro\_RUT |  | Int | 12 | Numero de RUT |
| Departamento |  | Char | 15 | Departamento donde se ubica |
| Nombre |  | Char | 30 | Nombre de la cooperativa |
| Direccion |  | Char | 25 | Dirección donde se ubica |
| Telefono |  | Int | 10 | Teléfono de contacto |
| Establecimientos | Nro\_DICOSE | PK | Int | 10 | Numero de DICOSE |
| Nro\_RUT |  | Int | 12 | Numero de RUT |
| Nro\_BPS | FK | Int | 10 | Numero de BPS |
| Nombre |  |  | 30 | Nombre del Establecimiento |
| Direccion |  |  | 25 | Direccion donde se ubica |
| Departamento |  |  | 15 | Departamento donde se ubica |
| Superficie |  | Int | 5 | Tamaño del establecimiento en hectáreas |
| Limite\_Animales |  | Int | 5 | Limite de animales que contendrá |
| Ci\_Propietario | FK | Int | 8 | Cedula del propietario |
| Telefonos  Establecimiento | Nro\_DICOSE | PK  FK | Int | 10 | Numero de DICOSE del establecimiento |
| Telefono | PK | Int | 10 | Telefonos del establecimiento |
| Usuarios | CI | PK | Int | 8 | Cedula de identidad del usuario |
| ID | FK | Int | 1 | ID de usuario, identifica el tipo de usuario |
| Nombre |  | Char | 15 | Nombre del usuario |
| Apellido |  | Char | 15 | Apellido del usuario |
| Direccion |  | Char | 25 | Direccion donde vive |
| Departamento |  | Char | 15 | Departamento donde vive |
| Nom\_Usu |  | Char | 15 | Nombre de usuario en el sistema |
| Nro\_DICOSE | FK | Int | 10 | Numero del establecimiento donde trabaja |
| Tipos  De  Usuario | ID | PK | Int | 1 | Numero para identificar el tipo |
| Tipo |  | Char | 25 | Tipo de usuario (administrador, etc.) |
| Telefonos  De  Usuario | CI | PK  FK | Int | 8 | Cedula de identidad del usuario |
| Telefono | PK | Int | 10 | Telefonos del usuario |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Propietario | CI | PK | Int | 8 | Cedula de identidad del propietario |
| Nombre |  | Char | 15 | Nombre del propietario |
| Apellido |  | Char | 15 | Apellido del propietario |
| Departamento |  | Char | 15 | Departamento donde vive |
| Direccion |  | Char | 25 | Direccion donde vive |
| Telefonos  Del  Propietario | CI | PK  FK | Int | 8 | Cedula de identidad del propietario |
| Telefono | PK | Int | 4 | Telefonos del propietario |
| Eventos | Nro\_Evento | PKFK | Int | 6 | Numero identificador para el evento |
| Nro\_Animal | FK | Int | 5 | Numero del animal que lo protagonizo |
| Fecha |  | Date |  | Fecha en que ocurrió dicho evento |
| Id\_Evento | FK | Int | 6 | Numero identificador para el tipo de evento |
| Tipos  De  eventos | Id\_Evento | PK | Int | 6 | Numero identificador para el tipo de evento |
| Tipo |  | Char | 15 | Tipo de evento (Muerte, Vendido, etc.) |
| Vendido | Nro\_Evento | PK  FK | Int | 6 | Numero identificador del evento |
| Enfermedad | Nro\_Evento | PK  FK | Int | 6 | Numero identificador del evento |
| Nombre |  | Char | 15 | Nombre de la enfermedad |
| Medicamento |  | Char | 15 | Nombre del medicamento para la enfermedad (si es que se suministra) |
| Parto | Nro\_Evento | PK FK | Int | 6 | Numero identificador del evento |
| Servicio | Nro\_Evento | PK  FK | Int | 6 | Numero identificador del evento |
| Id\_Servicio | FK | Int | 1 | Numero identificador del tipo de servicio |
| Tipos  De  servicio | Id\_Servicio | PK | Int | 1 | Numero identificador del tipo de servicio |
| Tipo |  | Char | 15 | Nombre del servicio |
| Muerte | Nro\_Evento | PK  FK | Int | 6 | Numero identificador del evento |
| Causa |  | Char | 15 | Causa de la muerte |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Animales | Nro\_Identificador | PK | Int | 6 | Numero identificador del animal |
| Id\_Animal | FK | Int | 1 | Numero para identificar el tipo de animal |
| Nombre |  | Char | 15 | Nombre del animal |
| Raza |  | Char | 15 | Raza del animal |
| Sexo |  | Char | 6 | Sexo del animal |
| Fecha\_Nac |  | Date |  | Fecha de nacimiento del animal |
| Lugar\_Actual |  | Char | 20 | Donde se ubica actualmente el animal |
| Nro\_DICOSE | FK | Int | 10 | Numero del establecimiento donde se ubica |
| Tipos  De  animales | Id\_Animal | PK | Int | 1 | Numero para identificar el tipo de animal |
| Tipo |  | Char | 25 | Tipo de animal (Vaca, Toro, etc.) |
| Animales  No  productivos | Nro\_Identificador | PK  FK | Int | 6 | Numero identificador para el animal |
| Tipo |  | Char | 15 | Tipo de animal no productivo (novillos, vacas que estén enfermas, etc.) |
| Toro | Nro\_Identificador | PKFK | Int | 6 | Numero identificador del animal |
| Vaca | Nro\_Identificador | PKFK | Int | 6 | Numero identificador del animal |
| Cria | Nro\_Identificador | PKFK | Int | 6 | Numero identificador del animal |
| Campo  De  recria | Nro\_Animal | PK  FK | Int | 6 | Numero identificador del animal |
| Nro\_Establecimiento | FK | Int | 10 | Numero de establecimiento donde esta |
| Peso |  | Float | 6 | Peso del animal |
| Lotes | Nro\_Lote | PK | Int | 6 | Numero identificador para el lote |
| Nombre |  | Char | 15 | Nombre del lote |
| Cant\_Animales |  | Int | 5 | Cantidad de animales que contiene ese lote |
| Criterio |  | Char | 15 | Criterio con el que se ordenan |
| Leche | Tipo | PK  FK | Int | 6 | Numero identificador del evento |
| Descripcion |  | Char | 15 | Causa de la muerte |

**5. Estudio de los permisos sobre la Base de Datos**

El estudio se realiza en base a la información que nos brinda la letra sobre los roles, las funcionalidades del programa y las tablas de la base de datos.

Los usuarios para el sistema serán los siguientes:

Administradores del Sistema: bs\_adm\_sis1

Administradores de un establecimiento: bs\_adm\_est1, bs\_adm\_est2

Gerentes Administradores : bs\_gerente1, bs\_gerente2

Auxiliares: bs\_aux1, bs\_aux2

REFERENCIAS: La “S” significa que tiene el permiso y la “N” que no lo tiene.

**Administradores del Sistema**

Estos usuarios van a tener acceso completo a la base de datos, por lo tanto se les brindara el acceso absoluto (DBA).

**Administradores de un establecimiento**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLA** | **SELECT** | **INSERT** | **UPDATE** | **DELETE** |
| Cooperativa | S | N | N | N |
| Establecimientos | S | S | S | N |
| Telefonos Establecimiento | S | S | S | S |
| Usuarios | N | N | N | N |
| Tipos de usuario | N | N | N | N |
| Telefonos Usuario | N | N | N | N |
| Propietario | S | S | S | N |
| Telefonos Propietario | S | S | S | S |
| Eventos | S | N | N | N |
| Tipos de Eventos | S | N | N | N |
| Vendido | S | N | N | N |
| Enfermedad | S | N | N | N |
| Parto | S | N | N | N |
| Servicio | S | N | N | N |
| Tipos de Servicio | S | N | N | N |
| Muerte | S | N | N | N |
| Animales | S | N | N | N |
| Tipos de Animales | S | N | N | N |
| Animales No Productivos | S | N | N | N |
| Toro | S | N | N | N |
| Vaca | S | N | N | N |
| Cria | S | N | N | N |
| Campo de Recria | S | N | N | N |
| Lotes | S | N | N | N |
| Leche | S | N | N | N |
| Compuesta Por | S | S | S | N |
| Le Pertenece | S | S | S | N |
| Cuentan Con | S | N | N | N |
| Protagonizan | S | N | N | N |
| Entore | S | N | N | N |
| Tienen | S | N | N | N |
| Salen | S | N | N | N |
| Convertido | S | N | N | N |
| Se Convierte | S | N | N | N |
| Se Dirige | S | N | N | N |
| Separadas en | S | N | N | N |
| Producen | S | N | N | N |

**Gerente Administrador**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLA** | **SELECT** | **INSERT** | **UPDATE** | **DELETE** |
| Cooperativa | S | N | N | N |
| Establecimientos | S | N | N | N |
| Telefonos Establecimiento | S | N | N | N |
| Usuarios | N | N | N | N |
| Tipos de usuario | N | N | N | N |
| Telefonos Usuario | N | N | N | N |
| Propietario | S | N | N | N |
| Telefonos Propietario | S | N | N | N |
| Eventos | S | N | N | N |
| Tipos de Eventos | S | N | N | N |
| Vendido | S | N | N | N |
| Enfermedad | S | N | N | N |
| Parto | S | N | N | N |
| Servicio | S | N | N | N |
| Tipos de Servicio | S | N | N | N |
| Muerte | S | N | N | N |
| Animales | S | N | N | N |
| Tipos de Animales | S | N | N | N |
| Animales No Productivos | S | N | N | N |
| Toro | S | N | N | N |
| Vaca | S | N | N | N |
| Cria | S | N | N | N |
| Campo de Recria | S | N | N | N |
| Lotes | S | N | N | N |
| Leche | S | N | N | N |
| Compuesta Por | S | N | N | N |
| Le Pertenece | S | N | N | N |
| Cuentan Con | S | N | N | N |
| Protagonizan | S | N | N | N |
| Entore | S | N | N | N |
| Tienen | S | N | N | N |
| Salen | S | N | N | N |
| Convertido | S | N | N | N |
| Se Convierte | S | N | N | N |
| Se Dirige | S | N | N | N |
| Separadas en | S | N | N | N |
| Producen | S | N | N | N |

**Auxiliar**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TABLA** | **SELECT** | **INSERT** | **UPDATE** | **DELETE** |
| Cooperativa | S | N | N | N |
| Establecimientos | S | S | S | S |
| Telefonos Establecimiento | S | S | S | S |
| Usuarios | N | N | N | N |
| Tipos de usuario | N | N | N | N |
| Telefonos Usuario | N | N | N | N |
| Propietario | S | S | S | N |
| Telefonos Propietario | S | S | S | S |
| Eventos | S | S | S | N |
| Tipos de Eventos | S | N | N | N |
| Vendido | S | S | S | N |
| Enfermedad | S | S | S | N |
| Parto | S | S | S | N |
| Servicio | S | S | S | N |
| Tipos de Servicio | S | N | N | N |
| Muerte | S | S | S | N |
| Animales | S | S | S | S |
| Tipos de Animales | S | N | N | N |
| Animales No Productivos | S | S | S | S |
| Toro | S | S | S | S |
| Vaca | S | S | S | S |
| Cria | S | S | S | S |
| Campo de Recria | S | S | S | S |
| Lotes | S | S | S | S |
| Leche | S | N | N | N |
| Compuesta Por | S | S | S | S |
| Le Pertenece | S | S | S | S |
| Cuentan Con | S | S | S | N |
| Protagonizan | S | S | S | N |
| Entore | S | S | S | N |
| Tienen | S | S | S | N |
| Salen | S | S | S | S |
| Convertido | S | S | S | S |
| Se Convierte | S | S | S | S |
| Se Dirige | S | S | S | S |
| Separadas en | S | S | S | S |
| Producen | S | S | S | N |

**6. DBExport**

{ DATABASE binasoft delimiter | }

grant dba to "ssorriba";

grant dba to "fiza";

grant dba to "jbarzi";

grant dba to "pmachin";

grant dba to "ipacheco";

grant dba to "bs\_adm\_sis1";

{ TABLE "ssorriba".cooperativa row size = 82 number of columns = 6 index size = 9

}

{ unload file name = coope00100.unl number of rows = 1 }

create table "ssorriba".cooperativa

(

nro\_bps integer not null ,

nro\_rut integer not null ,

departamento char(15) not null ,

nombre char(30) not null ,

direccion char(25) not null ,

telefono integer not null ,

primary key (nro\_bps) constraint "ssorriba".pkcooperativa

);

revoke all on "ssorriba".cooperativa from "public";

{ TABLE "jbarzi".tipos\_de\_servicio row size = 19 number of columns = 2 index size

= 9 }

{ unload file name = tipos00101.unl number of rows = 6 }

create table "jbarzi".tipos\_de\_servicio

(

id\_servicio integer not null ,

tipo char(15) not null ,

primary key (id\_servicio) constraint "jbarzi".pktiposdeservicio

);

revoke all on "jbarzi".tipos\_de\_servicio from "public";

{ TABLE "jbarzi".muerte row size = 19 number of columns = 2 index size = 9 }

{ unload file name = muert00102.unl number of rows = 0 }

create table "jbarzi".muerte

(

nro\_evento integer not null ,

causa char(15) not null ,

primary key (nro\_evento) constraint "jbarzi".pkmuerte

);

revoke all on "jbarzi".muerte from "public";

{ TABLE "fiza".telefonos\_propietario row size = 8 number of columns = 2 index size

= 22 }

{ unload file name = telef00103.unl number of rows = 2 }

create table "fiza".telefonos\_propietario

(

ci integer not null ,

telefono integer not null ,

primary key (ci,telefono) constraint "fiza".pktel

);

revoke all on "fiza".telefonos\_propietario from "public";

{ TABLE "ssorriba".establecimientos row size = 94 number of columns = 9 index size

= 27 }

{ unload file name = estab00104.unl number of rows = 5 }

create table "ssorriba".establecimientos

(

nro\_dicose integer not null ,

nro\_rut integer not null ,

nro\_bps integer not null ,

nombre char(30) not null ,

direccion char(25) not null ,

departamento char(15) not null ,

superficie integer not null ,

limite\_animales integer not null ,

ci\_propietario integer not null ,

primary key (nro\_dicose) constraint "ssorriba".pkestablecimientos

);

revoke all on "ssorriba".establecimientos from "public";

{ TABLE "ssorriba".telefonos\_establecimiento row size = 8 number of columns = 2 index

size = 22 }

{ unload file name = telef00105.unl number of rows = 2 }

create table "ssorriba".telefonos\_establecimiento

(

nro\_dicose integer not null ,

telefono integer not null ,

primary key (nro\_dicose,telefono) constraint "ssorriba".pktelestablecimientos

);

revoke all on "ssorriba".telefonos\_establecimiento from "public";

{ TABLE "jbarzi".animales row size = 72 number of columns = 8 index size = 27 }

{ unload file name = anima00106.unl number of rows = 157 }

create table "jbarzi".animales

(

nro\_identificador integer not null ,

id\_animal integer not null ,

nombre char(15) not null ,

raza char(15) not null ,

sexo char(6) not null ,

fecha\_nac date not null ,

lugar\_actual char(20) not null ,

nro\_dicose integer not null ,

primary key (nro\_identificador) constraint "jbarzi".pkanimales

);

revoke all on "jbarzi".animales from "public";

{ TABLE "fiza".eventos row size = 16 number of columns = 4 index size = 27 }

{ unload file name = event00107.unl number of rows = 0 }

create table "fiza".eventos

(

nro\_evento integer not null ,

nro\_animal integer not null ,

fecha date not null ,

id\_evento integer not null ,

primary key (nro\_evento) constraint "fiza".pk2

);

revoke all on "fiza".eventos from "public";

{ TABLE "ssorriba".usuarios row size = 97 number of columns = 8 index size = 27 }

{ unload file name = usuar00108.unl number of rows = 4 }

create table "ssorriba".usuarios

(

ci integer not null ,

id integer not null ,

nombre char(15) not null ,

apellido char(15) not null ,

direccion char(25) not null ,

departamento char(15) not null ,

nombre\_usu char(15) not null ,

nro\_bps integer not null ,

primary key (ci) constraint "ssorriba".pkusuarios

);

revoke all on "ssorriba".usuarios from "public";

{ TABLE "jbarzi".tipos\_de\_animales row size = 29 number of columns = 2 index size

= 9 }

{ unload file name = tipos00109.unl number of rows = 4 }

create table "jbarzi".tipos\_de\_animales

(

id\_animal integer not null ,

tipo char(25) not null ,

primary key (id\_animal) constraint "jbarzi".pktiposdeanimales

);

revoke all on "jbarzi".tipos\_de\_animales from "public";

{ TABLE "fiza".tipos\_de\_eventos row size = 19 number of columns = 2 index size =

9 }

{ unload file name = tipos00110.unl number of rows = 5 }

create table "fiza".tipos\_de\_eventos

(

id\_evento integer not null ,

tipo char(15) not null ,

primary key (id\_evento) constraint "fiza".pk7

);

revoke all on "fiza".tipos\_de\_eventos from "public";

{ TABLE "ssorriba".tipos\_de\_usuario row size = 44 number of columns = 2 index size

= 9 }

{ unload file name = tipos00111.unl number of rows = 4 }

create table "ssorriba".tipos\_de\_usuario

(

id integer not null ,

tipo char(40) not null ,

primary key (id) constraint "ssorriba".pktiposusuarios

);

revoke all on "ssorriba".tipos\_de\_usuario from "public";

{ TABLE "ssorriba".telefonos\_usuario row size = 8 number of columns = 2 index size

= 22 }

{ unload file name = telef00112.unl number of rows = 3 }

create table "ssorriba".telefonos\_usuario

(

ci integer not null ,

telefono integer not null ,

primary key (ci,telefono) constraint "ssorriba".pktelusuarios

);

revoke all on "ssorriba".telefonos\_usuario from "public";

{ TABLE "fiza".vendido row size = 4 number of columns = 1 index size = 9 }

{ unload file name = vendi00113.unl number of rows = 0 }

create table "fiza".vendido

(

nro\_evento integer not null ,

primary key (nro\_evento) constraint "fiza".pkvendido

);

revoke all on "fiza".vendido from "public";

{ TABLE "jbarzi".animales\_no\_productivos row size = 19 number of columns = 2 index

size = 9 }

{ unload file name = anima00114.unl number of rows = 6 }

create table "jbarzi".animales\_no\_productivos

(

nro\_identificador integer not null ,

tipo char(15) not null ,

primary key (nro\_identificador) constraint "jbarzi".pkanimalesnoproductivos

);

revoke all on "jbarzi".animales\_no\_productivos from "public";

{ TABLE "jbarzi".toro row size = 4 number of columns = 1 index size = 9 }

{ unload file name = toro\_00115.unl number of rows = 4 }

create table "jbarzi".toro

(

nro\_identificador integer not null ,

primary key (nro\_identificador) constraint "jbarzi".pktoro

);

revoke all on "jbarzi".toro from "public";

{ TABLE "ssorriba".propietario row size = 74 number of columns = 5 index size = 9

}

{ unload file name = propi00116.unl number of rows = 5 }

create table "ssorriba".propietario

(

ci integer not null ,

nombre char(15) not null ,

apellido char(15) not null ,

departamento char(15) not null ,

direccion char(25) not null ,

primary key (ci) constraint "ssorriba".pkpropietario

);

revoke all on "ssorriba".propietario from "public";

{ TABLE "jbarzi".vaca row size = 4 number of columns = 1 index size = 9 }

{ unload file name = vaca\_00117.unl number of rows = 126 }

create table "jbarzi".vaca

(

nro\_identificador integer not null ,

primary key (nro\_identificador) constraint "jbarzi".pkvaca

);

revoke all on "jbarzi".vaca from "public";

{ TABLE "fiza".enfermedad row size = 34 number of columns = 3 index size = 9 }

{ unload file name = enfer00118.unl number of rows = 0 }

create table "fiza".enfermedad

(

nro\_evento integer not null ,

nombre char(15),

medicamento char(15),

primary key (nro\_evento) constraint "fiza".pk1

);

revoke all on "fiza".enfermedad from "public";

{ TABLE "ipacheco".cria row size = 4 number of columns = 1 index size = 9 }

{ unload file name = cria\_00119.unl number of rows = 21 }

create table "ipacheco".cria

(

nro\_identificador integer not null ,

primary key (nro\_identificador) constraint "ipacheco".pkcria

);

revoke all on "ipacheco".cria from "public";

{ TABLE "fiza".parto row size = 4 number of columns = 1 index size = 9 }

{ unload file name = parto00120.unl number of rows = 0 }

create table "fiza".parto

(

nro\_evento integer not null ,

primary key (nro\_evento) constraint "fiza".pk3

);

revoke all on "fiza".parto from "public";

{ TABLE "ipacheco".campo\_de\_recria row size = 18 number of columns = 3 index size

= 18 }

{ unload file name = campo00121.unl number of rows = 0 }

create table "ipacheco".campo\_de\_recria

(

nro\_animal integer not null ,

nro\_establecimiento integer not null ,

peso decimal(16) not null ,

primary key (nro\_animal) constraint "ipacheco".pkcamporecria

);

revoke all on "ipacheco".campo\_de\_recria from "public";

{ TABLE "ipacheco".lotes row size = 48 number of columns = 4 index size = 9 }

{ unload file name = lotes00122.unl number of rows = 3 }

create table "ipacheco".lotes

(

nro\_lote integer not null ,

nombre char(20) not null ,

cant\_animales integer not null ,

criterio char(20) not null ,

primary key (nro\_lote) constraint "ipacheco".pklotes

);

revoke all on "ipacheco".lotes from "public";

{ TABLE "ipacheco".leche row size = 24 number of columns = 2 index size = 9 }

{ unload file name = leche00123.unl number of rows = 3 }

create table "ipacheco".leche

(

tipo integer not null ,

descripcion char(20) not null ,

primary key (tipo) constraint "ipacheco".pkleche

);

revoke all on "ipacheco".leche from "public";

{ TABLE "fiza".servicio row size = 8 number of columns = 2 index size = 18 }

{ unload file name = servi00124.unl number of rows = 0 }

create table "fiza".servicio

(

nro\_evento integer not null ,

id\_servicio integer not null ,

primary key (nro\_evento) constraint "fiza".pk5

);

revoke all on "fiza".servicio from "public";

{ TABLE "fiza".convertido row size = 8 number of columns = 2 index size = 9 }

{ unload file name = conve00125.unl number of rows = 0 }

create table "fiza".convertido

(

nro\_identificador integer not null ,

fecha date not null ,

primary key (nro\_identificador) constraint "fiza".pk

);

revoke all on "fiza".convertido from "public";

{ TABLE "jbarzi".separadas\_en row size = 28 number of columns = 3 index size = 18

}

{ unload file name = separ00126.unl number of rows = 0 }

create table "jbarzi".separadas\_en

(

nro\_identificador integer not null ,

estado\_vaca char(20) not null ,

nro\_lote integer not null ,

primary key (nro\_identificador) constraint "jbarzi".pkseparadasen

);

revoke all on "jbarzi".separadas\_en from "public";

{ TABLE "ssorriba".producen row size = 28 number of columns = 7 index size = 31 }

{ unload file name = produ00127.unl number of rows = 2 }

create table "ssorriba".producen

(

tipo integer not null ,

nro\_lote integer not null ,

fecha date not null ,

primer\_ordenie integer not null ,

segundo\_ordenie integer not null ,

tercer\_ordenie integer not null ,

cant\_producida integer not null ,

primary key (fecha,nro\_lote) constraint "ssorriba".pkproducen

);

revoke all on "ssorriba".producen from "public";

{ TABLE "jbarzi".se\_dirige row size = 8 number of columns = 2 index size = 9 }

{ unload file name = se\_di00128.unl number of rows = 0 }

create table "jbarzi".se\_dirige

(

nro\_identificador integer not null ,

fecha date not null ,

primary key (nro\_identificador) constraint "jbarzi".pksedirige

);

revoke all on "jbarzi".se\_dirige from "public";

{ TABLE "fiza".se\_convierte row size = 8 number of columns = 2 index size = 9 }

{ unload file name = se\_co00129.unl number of rows = 0 }

create table "fiza".se\_convierte

(

nro\_identificador integer not null ,

fecha date not null ,

primary key (nro\_identificador) constraint "fiza".pk4

);

revoke all on "fiza".se\_convierte from "public";

{ TABLE "pmachin".compuesta\_por row size = 8 number of columns = 2 index size = 18

}

{ unload file name = compu00130.unl number of rows = 5 }

create table "pmachin".compuesta\_por

(

nro\_bps integer not null ,

nro\_dicose integer not null ,

primary key (nro\_dicose) constraint "pmachin".pkcompuestapor

);

revoke all on "pmachin".compuesta\_por from "public";

{ TABLE "pmachin".le\_pertenece row size = 8 number of columns = 2 index size = 18

}

{ unload file name = le\_pe00131.unl number of rows = 5 }

create table "pmachin".le\_pertenece

(

nro\_dicose integer not null ,

ci integer not null ,

primary key (nro\_dicose) constraint "pmachin".pklepertenece

);

revoke all on "pmachin".le\_pertenece from "public";

{ TABLE "pmachin".cuentan\_con row size = 8 number of columns = 2 index size = 18

}

{ unload file name = cuent00132.unl number of rows = 0 }

create table "pmachin".cuentan\_con

(

nro\_dicose integer not null ,

nro\_animal integer not null ,

primary key (nro\_dicose) constraint "pmachin".pkcuentancon

);

revoke all on "pmachin".cuentan\_con from "public";

{ TABLE "pmachin".protagonizan row size = 8 number of columns = 2 index size = 31

}

{ unload file name = prota00133.unl number of rows = 0 }

create table "pmachin".protagonizan

(

nro\_identificador integer not null ,

nro\_evento integer not null ,

primary key (nro\_identificador,nro\_evento) constraint "pmachin".pkprotagonizan

);

revoke all on "pmachin".protagonizan from "public";

{ TABLE "pmachin".entore row size = 12 number of columns = 3 index size = 31 }

{ unload file name = entor00134.unl number of rows = 0 }

create table "pmachin".entore

(

nro\_identificador\_toro integer not null ,

nro\_identificador\_vaca integer not null ,

fecha\_entore date not null ,

primary key (nro\_identificador\_toro,nro\_identificador\_vaca) constraint "pmachin".pkentore

);

revoke all on "pmachin".entore from "public";

{ TABLE "pmachin".tienen row size = 12 number of columns = 3 index size = 39 }

{ unload file name = tiene00135.unl number of rows = 0 }

create table "pmachin".tienen

(

nro\_identificador\_toro integer not null ,

nro\_identificador\_vaca integer not null ,

nro\_identificador\_cria integer not null ,

primary key (nro\_identificador\_toro,nro\_identificador\_vaca,nro\_identificador\_cria)

constraint "pmachin".pktienen

);

revoke all on "pmachin".tienen from "public";

{ TABLE "pmachin".salen row size = 28 number of columns = 3 index size = 9 }

{ unload file name = salen00136.unl number of rows = 0 }

create table "pmachin".salen

(

nro\_identificador integer not null ,

fecha date not null ,

tipo char(20) not null ,

primary key (nro\_identificador) constraint "pmachin".pksalen

);

revoke all on "pmachin".salen from "public";

grant select on "ssorriba".cooperativa to "bs\_adm\_est2" as "ssorriba";

grant select on "ssorriba".cooperativa to "bs\_aux1" as "ssorriba";

grant select on "ssorriba".cooperativa to "bs\_adm\_est1" as "ssorriba";

grant select on "ssorriba".cooperativa to "bs\_aux2" as "ssorriba";

grant select on "ssorriba".cooperativa to "public" as "ssorriba";

grant update on "ssorriba".cooperativa to "public" as "ssorriba";

grant insert on "ssorriba".cooperativa to "public" as "ssorriba";

grant delete on "ssorriba".cooperativa to "public" as "ssorriba";

grant index on "ssorriba".cooperativa to "public" as "ssorriba";

grant select on "ssorriba".cooperativa to "bs\_gerente1" as "ssorriba";

grant select on "ssorriba".cooperativa to "bs\_gerente2" as "ssorriba";

grant select on "jbarzi".tipos\_de\_servicio to "bs\_adm\_est2" as "jbarzi";

grant select on "jbarzi".tipos\_de\_servicio to "bs\_aux1" as "jbarzi";

grant select on "jbarzi".tipos\_de\_servicio to "bs\_aux2" as "jbarzi";

grant select on "jbarzi".tipos\_de\_servicio to "bs\_gerente1" as "jbarzi";

grant select on "jbarzi".tipos\_de\_servicio to "bs\_gerente2" as "jbarzi";

grant select on "jbarzi".tipos\_de\_servicio to "bs\_adm\_est1" as "jbarzi";

grant select on "jbarzi".tipos\_de\_servicio to "public" as "jbarzi";

grant update on "jbarzi".tipos\_de\_servicio to "public" as "jbarzi";

grant insert on "jbarzi".tipos\_de\_servicio to "public" as "jbarzi";

grant delete on "jbarzi".tipos\_de\_servicio to "public" as "jbarzi";

grant index on "jbarzi".tipos\_de\_servicio to "public" as "jbarzi";

grant select on "jbarzi".muerte to "bs\_adm\_est2" as "jbarzi";

grant select on "jbarzi".muerte to "bs\_aux1" as "jbarzi";

grant update on "jbarzi".muerte to "bs\_aux1" as "jbarzi";

grant insert on "jbarzi".muerte to "bs\_aux1" as "jbarzi";

grant select on "jbarzi".muerte to "bs\_aux2" as "jbarzi";

grant update on "jbarzi".muerte to "bs\_aux2" as "jbarzi";

grant insert on "jbarzi".muerte to "bs\_aux2" as "jbarzi";

grant select on "jbarzi".muerte to "bs\_gerente1" as "jbarzi";

grant select on "jbarzi".muerte to "bs\_gerente2" as "jbarzi";

grant select on "jbarzi".muerte to "bs\_\_adm\_est1" as "jbarzi";

grant select on "jbarzi".muerte to "public" as "jbarzi";

grant update on "jbarzi".muerte to "public" as "jbarzi";

grant insert on "jbarzi".muerte to "public" as "jbarzi";

grant delete on "jbarzi".muerte to "public" as "jbarzi";

grant index on "jbarzi".muerte to "public" as "jbarzi";

grant select on "fiza".telefonos\_propietario to "bs\_adm\_est2" as "fiza";

grant update on "fiza".telefonos\_propietario to "bs\_adm\_est2" as "fiza";

grant insert on "fiza".telefonos\_propietario to "bs\_adm\_est2" as "fiza";

grant delete on "fiza".telefonos\_propietario to "bs\_adm\_est2" as "fiza";

grant select on "fiza".telefonos\_propietario to "bs\_aux1" as "fiza";

grant update on "fiza".telefonos\_propietario to "bs\_aux1" as "fiza";

grant insert on "fiza".telefonos\_propietario to "bs\_aux1" as "fiza";

grant delete on "fiza".telefonos\_propietario to "bs\_aux1" as "fiza";

grant select on "fiza".telefonos\_propietario to "bs\_adm\_est1" as "fiza";

grant update on "fiza".telefonos\_propietario to "bs\_adm\_est1" as "fiza";

grant insert on "fiza".telefonos\_propietario to "bs\_adm\_est1" as "fiza";

grant delete on "fiza".telefonos\_propietario to "bs\_adm\_est1" as "fiza";

grant select on "fiza".telefonos\_propietario to "bs\_aux2" as "fiza";

grant update on "fiza".telefonos\_propietario to "bs\_aux2" as "fiza";

grant insert on "fiza".telefonos\_propietario to "bs\_aux2" as "fiza";

grant delete on "fiza".telefonos\_propietario to "bs\_aux2" as "fiza";

grant select on "fiza".telefonos\_propietario to "public" as "fiza";

grant update on "fiza".telefonos\_propietario to "public" as "fiza";

grant insert on "fiza".telefonos\_propietario to "public" as "fiza";

grant delete on "fiza".telefonos\_propietario to "public" as "fiza";

grant index on "fiza".telefonos\_propietario to "public" as "fiza";

grant select on "fiza".telefonos\_propietario to "bs\_gerente1" as "fiza";

grant select on "fiza".telefonos\_propietario to "bs\_gerente2" as "fiza";

grant select on "ssorriba".establecimientos to "bs\_adm\_est1" as "ssorriba";

grant update on "ssorriba".establecimientos to "bs\_adm\_est1" as "ssorriba";

grant insert on "ssorriba".establecimientos to "bs\_adm\_est1" as "ssorriba";

grant select on "ssorriba".establecimientos to "public" as "ssorriba";

grant update on "ssorriba".establecimientos to "public" as "ssorriba";

grant insert on "ssorriba".establecimientos to "public" as "ssorriba";

grant delete on "ssorriba".establecimientos to "public" as "ssorriba";

grant index on "ssorriba".establecimientos to "public" as "ssorriba";

grant select on "ssorriba".establecimientos to "bs\_adm\_est2" as "ssorriba";

grant update on "ssorriba".establecimientos to "bs\_adm\_est2" as "ssorriba";

grant insert on "ssorriba".establecimientos to "bs\_adm\_est2" as "ssorriba";

grant select on "ssorriba".establecimientos to "bs\_aux1" as "ssorriba";

grant update on "ssorriba".establecimientos to "bs\_aux1" as "ssorriba";

grant insert on "ssorriba".establecimientos to "bs\_aux1" as "ssorriba";

grant delete on "ssorriba".establecimientos to "bs\_aux1" as "ssorriba";

grant select on "ssorriba".establecimientos to "bs\_aux2" as "ssorriba";

grant update on "ssorriba".establecimientos to "bs\_aux2" as "ssorriba";

grant insert on "ssorriba".establecimientos to "bs\_aux2" as "ssorriba";

grant delete on "ssorriba".establecimientos to "bs\_aux2" as "ssorriba";

grant select on "ssorriba".establecimientos to "bs\_gerente1" as "ssorriba";

grant select on "ssorriba".establecimientos to "bs\_gerente2" as "ssorriba";

grant select on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est2" as "ssorriba";

grant update on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est2" as "ssorriba";

grant insert on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est2" as "ssorriba";

grant delete on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est2" as "ssorriba";

grant select on "ssorriba".telefonos\_establecimiento to "bs\_aux1" as "ssorriba";

grant update on "ssorriba".telefonos\_establecimiento to "bs\_aux1" as "ssorriba";

grant insert on "ssorriba".telefonos\_establecimiento to "bs\_aux1" as "ssorriba";

grant delete on "ssorriba".telefonos\_establecimiento to "bs\_aux1" as "ssorriba";

grant select on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est1" as "ssorriba";

grant update on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est1" as "ssorriba";

grant insert on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est1" as "ssorriba";

grant delete on "ssorriba".telefonos\_establecimiento to "bs\_adm\_est1" as "ssorriba";

grant select on "ssorriba".telefonos\_establecimiento to "bs\_aux2" as "ssorriba";

grant update on "ssorriba".telefonos\_establecimiento to "bs\_aux2" as "ssorriba";

grant insert on "ssorriba".telefonos\_establecimiento to "bs\_aux2" as "ssorriba";

grant delete on "ssorriba".telefonos\_establecimiento to "bs\_aux2" as "ssorriba";

grant select on "ssorriba".telefonos\_establecimiento to "public" as "ssorriba";

grant update on "ssorriba".telefonos\_establecimiento to "public" as "ssorriba";

grant insert on "ssorriba".telefonos\_establecimiento to "public" as "ssorriba";

grant delete on "ssorriba".telefonos\_establecimiento to "public" as "ssorriba";

grant index on "ssorriba".telefonos\_establecimiento to "public" as "ssorriba";

grant select on "ssorriba".telefonos\_establecimiento to "bs\_gerente1" as "ssorriba";

grant select on "ssorriba".telefonos\_establecimiento to "bs\_gerente2" as "ssorriba";

grant select on "jbarzi".animales to "bs\_adm\_est2" as "jbarzi";

grant select on "jbarzi".animales to "bs\_aux1" as "jbarzi";

grant update on "jbarzi".animales to "bs\_aux1" as "jbarzi";

grant insert on "jbarzi".animales to "bs\_aux1" as "jbarzi";

grant delete on "jbarzi".animales to "bs\_aux1" as "jbarzi";

grant select on "jbarzi".animales to "bs\_adm\_est1" as "jbarzi";

grant select on "jbarzi".animales to "bs\_aux2" as "jbarzi";

grant update on "jbarzi".animales to "bs\_aux2" as "jbarzi";

grant insert on "jbarzi".animales to "bs\_aux2" as "jbarzi";

grant delete on "jbarzi".animales to "bs\_aux2" as "jbarzi";

grant select on "jbarzi".animales to "public" as "jbarzi";

grant update on "jbarzi".animales to "public" as "jbarzi";

grant insert on "jbarzi".animales to "public" as "jbarzi";

grant delete on "jbarzi".animales to "public" as "jbarzi";

grant index on "jbarzi".animales to "public" as "jbarzi";

grant select on "jbarzi".animales to "bs\_gerente1" as "jbarzi";

grant select on "jbarzi".animales to "bs\_gerente2" as "jbarzi";

grant select on "fiza".eventos to "bs\_adm\_est2" as "fiza";

grant select on "fiza".eventos to "bs\_aux1" as "fiza";

grant update on "fiza".eventos to "bs\_aux1" as "fiza";

grant insert on "fiza".eventos to "bs\_aux1" as "fiza";

grant select on "fiza".eventos to "bs\_adm\_est1" as "fiza";

grant select on "fiza".eventos to "bs\_aux2" as "fiza";

grant update on "fiza".eventos to "bs\_aux2" as "fiza";

grant insert on "fiza".eventos to "bs\_aux2" as "fiza";

grant select on "fiza".eventos to "public" as "fiza";

grant update on "fiza".eventos to "public" as "fiza";

grant insert on "fiza".eventos to "public" as "fiza";

grant delete on "fiza".eventos to "public" as "fiza";

grant index on "fiza".eventos to "public" as "fiza";

grant select on "fiza".eventos to "bs\_gerente1" as "fiza";

grant select on "fiza".eventos to "bs\_gerente2" as "fiza";

grant select on "ssorriba".usuarios to "public" as "ssorriba";

grant update on "ssorriba".usuarios to "public" as "ssorriba";

grant insert on "ssorriba".usuarios to "public" as "ssorriba";

grant delete on "ssorriba".usuarios to "public" as "ssorriba";

grant index on "ssorriba".usuarios to "public" as "ssorriba";

grant select on "jbarzi".tipos\_de\_animales to "bs\_adm\_est1" as "jbarzi";

grant select on "jbarzi".tipos\_de\_animales to "public" as "jbarzi";

grant update on "jbarzi".tipos\_de\_animales to "public" as "jbarzi";

grant insert on "jbarzi".tipos\_de\_animales to "public" as "jbarzi";

grant delete on "jbarzi".tipos\_de\_animales to "public" as "jbarzi";

grant index on "jbarzi".tipos\_de\_animales to "public" as "jbarzi";

grant select on "jbarzi".tipos\_de\_animales to "bs\_adm\_est2" as "jbarzi";

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grant update on "pmachin".compuesta\_por to "bs\_adm\_est1" as "pmachin";

grant insert on "pmachin".compuesta\_por to "bs\_adm\_est1" as "pmachin";

grant select on "pmachin".compuesta\_por to "public" as "pmachin";

grant update on "pmachin".compuesta\_por to "public" as "pmachin";

grant insert on "pmachin".compuesta\_por to "public" as "pmachin";

grant delete on "pmachin".compuesta\_por to "public" as "pmachin";

grant index on "pmachin".compuesta\_por to "public" as "pmachin";

grant select on "pmachin".le\_pertenece to "bs\_adm\_est2" as "pmachin";

grant update on "pmachin".le\_pertenece to "bs\_adm\_est2" as "pmachin";

grant insert on "pmachin".le\_pertenece to "bs\_adm\_est2" as "pmachin";

grant select on "pmachin".le\_pertenece to "bs\_aux1" as "pmachin";

grant update on "pmachin".le\_pertenece to "bs\_aux1" as "pmachin";

grant insert on "pmachin".le\_pertenece to "bs\_aux1" as "pmachin";

grant delete on "pmachin".le\_pertenece to "bs\_aux1" as "pmachin";

grant select on "pmachin".le\_pertenece to "bs\_aux2" as "pmachin";

grant update on "pmachin".le\_pertenece to "bs\_aux2" as "pmachin";

grant insert on "pmachin".le\_pertenece to "bs\_aux2" as "pmachin";

grant delete on "pmachin".le\_pertenece to "bs\_aux2" as "pmachin";

grant select on "pmachin".le\_pertenece to "bs\_gerente1" as "pmachin";

grant select on "pmachin".le\_pertenece to "bs\_gerente2" as "pmachin";

grant select on "pmachin".le\_pertenece to "bs\_adm\_est1" as "pmachin";

grant update on "pmachin".le\_pertenece to "bs\_adm\_est1" as "pmachin";

grant insert on "pmachin".le\_pertenece to "bs\_adm\_est1" as "pmachin";

grant select on "pmachin".le\_pertenece to "public" as "pmachin";

grant update on "pmachin".le\_pertenece to "public" as "pmachin";

grant insert on "pmachin".le\_pertenece to "public" as "pmachin";

grant delete on "pmachin".le\_pertenece to "public" as "pmachin";

grant index on "pmachin".le\_pertenece to "public" as "pmachin";

grant select on "pmachin".cuentan\_con to "bs\_adm\_est2" as "pmachin";

grant select on "pmachin".cuentan\_con to "bs\_aux1" as "pmachin";

grant update on "pmachin".cuentan\_con to "bs\_aux1" as "pmachin";

grant insert on "pmachin".cuentan\_con to "bs\_aux1" as "pmachin";

grant select on "pmachin".cuentan\_con to "bs\_adm\_est1" as "pmachin";

grant select on "pmachin".cuentan\_con to "bs\_aux2" as "pmachin";

grant update on "pmachin".cuentan\_con to "bs\_aux2" as "pmachin";

grant insert on "pmachin".cuentan\_con to "bs\_aux2" as "pmachin";

grant select on "pmachin".cuentan\_con to "public" as "pmachin";

grant update on "pmachin".cuentan\_con to "public" as "pmachin";

grant insert on "pmachin".cuentan\_con to "public" as "pmachin";

grant delete on "pmachin".cuentan\_con to "public" as "pmachin";

grant index on "pmachin".cuentan\_con to "public" as "pmachin";

grant select on "pmachin".cuentan\_con to "bs\_gerente1" as "pmachin";

grant select on "pmachin".cuentan\_con to "bs\_gerente2" as "pmachin";

grant select on "pmachin".protagonizan to "bs\_adm\_est1" as "pmachin";

grant select on "pmachin".protagonizan to "public" as "pmachin";

grant update on "pmachin".protagonizan to "public" as "pmachin";

grant insert on "pmachin".protagonizan to "public" as "pmachin";

grant delete on "pmachin".protagonizan to "public" as "pmachin";

grant index on "pmachin".protagonizan to "public" as "pmachin";

grant select on "pmachin".protagonizan to "bs\_adm\_est2" as "pmachin";

grant insert on "pmachin".protagonizan to "bs\_aux" as "pmachin";

grant select on "pmachin".protagonizan to "bs\_aux1" as "pmachin";

grant update on "pmachin".protagonizan to "bs\_aux1" as "pmachin";

grant select on "pmachin".protagonizan to "bs\_aux2" as "pmachin";

grant update on "pmachin".protagonizan to "bs\_aux2" as "pmachin";

grant insert on "pmachin".protagonizan to "bs\_aux2" as "pmachin";

grant select on "pmachin".protagonizan to "bs\_gerente1" as "pmachin";

grant select on "pmachin".protagonizan to "bs\_gerente2" as "pmachin";

grant select on "pmachin".entore to "bs\_adm\_est2" as "pmachin";

grant insert on "pmachin".entore to "bs\_aux" as "pmachin";

grant select on "pmachin".entore to "bs\_adm\_est1" as "pmachin";

grant select on "pmachin".entore to "bs\_aux1" as "pmachin";

grant update on "pmachin".entore to "bs\_aux1" as "pmachin";

grant select on "pmachin".entore to "public" as "pmachin";

grant update on "pmachin".entore to "public" as "pmachin";

grant insert on "pmachin".entore to "public" as "pmachin";

grant delete on "pmachin".entore to "public" as "pmachin";

grant index on "pmachin".entore to "public" as "pmachin";

grant select on "pmachin".entore to "bs\_aux2" as "pmachin";

grant update on "pmachin".entore to "bs\_aux2" as "pmachin";

grant insert on "pmachin".entore to "bs\_aux2" as "pmachin";

grant select on "pmachin".entore to "bs\_gerente1" as "pmachin";

grant select on "pmachin".entore to "bs\_gerente2" as "pmachin";

grant select on "pmachin".tienen to "bs\_adm\_est2" as "pmachin";

grant select on "pmachin".tienen to "bs\_adm\_est1" as "pmachin";

grant select on "pmachin".tienen to "bs\_aux1" as "pmachin";

grant update on "pmachin".tienen to "bs\_aux1" as "pmachin";

grant insert on "pmachin".tienen to "bs\_aux1" as "pmachin";

grant select on "pmachin".tienen to "public" as "pmachin";

grant update on "pmachin".tienen to "public" as "pmachin";

grant insert on "pmachin".tienen to "public" as "pmachin";

grant delete on "pmachin".tienen to "public" as "pmachin";

grant index on "pmachin".tienen to "public" as "pmachin";

grant select on "pmachin".tienen to "bs\_aux2" as "pmachin";

grant update on "pmachin".tienen to "bs\_aux2" as "pmachin";

grant insert on "pmachin".tienen to "bs\_aux2" as "pmachin";

grant select on "pmachin".tienen to "bs\_gerente1" as "pmachin";

grant select on "pmachin".tienen to "bs\_gerente2" as "pmachin";

grant select on "pmachin".salen to "bs\_adm\_est2" as "pmachin";

grant select on "pmachin".salen to "bs\_aux1" as "pmachin";

grant update on "pmachin".salen to "bs\_aux1" as "pmachin";

grant insert on "pmachin".salen to "bs\_aux1" as "pmachin";

grant delete on "pmachin".salen to "bs\_aux1" as "pmachin";

grant select on "pmachin".salen to "bs\_adm\_est1" as "pmachin";

grant select on "pmachin".salen to "bs\_aux2" as "pmachin";

grant update on "pmachin".salen to "bs\_aux2" as "pmachin";

grant insert on "pmachin".salen to "bs\_aux2" as "pmachin";

grant delete on "pmachin".salen to "bs\_aux2" as "pmachin";

grant select on "pmachin".salen to "public" as "pmachin";

grant update on "pmachin".salen to "public" as "pmachin";

grant insert on "pmachin".salen to "public" as "pmachin";

grant delete on "pmachin".salen to "public" as "pmachin";

grant index on "pmachin".salen to "public" as "pmachin";

grant select on "pmachin".salen to "bs\_gerente1" as "pmachin";

grant select on "pmachin".salen to "bs\_gerente2" as "pmachin";

revoke usage on language SPL from public ;

grant usage on language SPL to public ;

alter table "ssorriba".usuarios add constraint (foreign key (nro\_bps)

references "ssorriba".cooperativa on delete cascade constraint

"ssorriba".fk2usuarios);

alter table "ssorriba".establecimientos add constraint (foreign

key (nro\_bps) references "ssorriba".cooperativa on delete

cascade constraint "ssorriba".fkestablecimientos);

alter table "ssorriba".telefonos\_establecimiento add constraint

(foreign key (nro\_dicose) references "ssorriba".establecimientos

on delete cascade constraint "ssorriba".fktelestablecimiento);

alter table "ssorriba".usuarios add constraint (foreign key (id)

references "ssorriba".tipos\_de\_usuario on delete cascade

constraint "ssorriba".fk1usuarios);

alter table "jbarzi".animales add constraint (foreign key (nro\_dicose)

references "ssorriba".establecimientos on delete cascade

constraint "jbarzi".fkanimales);

alter table "jbarzi".animales add constraint (foreign key (id\_animal)

references "jbarzi".tipos\_de\_animales on delete cascade constraint

"jbarzi".fkanimales2);

alter table "fiza".enfermedad add constraint (foreign key (nro\_evento)

references "fiza".eventos on delete cascade constraint "fiza"

.fkenfermedad);

alter table "ssorriba".telefonos\_usuario add constraint (foreign

key (ci) references "ssorriba".usuarios on delete cascade

constraint "ssorriba".fktelusuarios);

alter table "jbarzi".animales\_no\_productivos add constraint (foreign

key (nro\_identificador) references "jbarzi".animales on delete

cascade constraint "jbarzi".fkanimalesnoproductivos);

alter table "jbarzi".toro add constraint (foreign key (nro\_identificador)

references "jbarzi".animales on delete cascade constraint

"jbarzi".fktoro);

alter table "jbarzi".vaca add constraint (foreign key (nro\_identificador)

references "jbarzi".animales on delete cascade constraint

"jbarzi".fkvaca);

alter table "fiza".eventos add constraint (foreign key (nro\_animal)

references "jbarzi".animales on delete cascade constraint

"fiza".fk1);

alter table "fiza".eventos add constraint (foreign key (id\_evento)

references "fiza".tipos\_de\_eventos on delete cascade constraint

"fiza".fk2);

alter table "jbarzi".muerte add constraint (foreign key (nro\_evento)

references "fiza".eventos on delete cascade constraint "jbarzi"

.fkmuerte);

alter table "ipacheco".cria add constraint (foreign key (nro\_identificador)

references "jbarzi".animales on delete cascade constraint

"ipacheco".fkcria);

alter table "jbarzi".se\_dirige add constraint (foreign key (nro\_identificador)

references "jbarzi".animales on delete cascade constraint

"jbarzi".fksedirige);

alter table "jbarzi".separadas\_en add constraint (foreign key

(nro\_identificador) references "jbarzi".animales on delete

cascade constraint "jbarzi".fkseparadasen);

alter table "ipacheco".campo\_de\_recria add constraint (foreign

key (nro\_animal) references "jbarzi".animales on delete cascade

constraint "ipacheco".fkcamporecria1);

alter table "ipacheco".campo\_de\_recria add constraint (foreign

key (nro\_establecimiento) references "ssorriba".establecimientos

on delete cascade constraint "ipacheco".fkcamporecria2);

alter table "fiza".servicio add constraint (foreign key (nro\_evento)

references "fiza".eventos on delete cascade constraint "fiza"

.fk1servicio);

alter table "fiza".servicio add constraint (foreign key (id\_servicio)

references "jbarzi".tipos\_de\_servicio on delete cascade constraint

"fiza".fk2servicio);

alter table "fiza".telefonos\_propietario add constraint (foreign

key (ci) references "ssorriba".propietario on delete cascade

constraint "fiza".fk1tel);

alter table "fiza".vendido add constraint (foreign key (nro\_evento)

references "fiza".eventos on delete cascade constraint "fiza"

.fk1vendido);

alter table "ssorriba".producen add constraint (foreign key (tipo)

references "ipacheco".leche on delete cascade constraint

"ssorriba".fkproducen);

alter table "ssorriba".producen add constraint (foreign key (nro\_lote)

references "ipacheco".lotes on delete cascade constraint

"ssorriba".fkproducen2);

alter table "pmachin".compuesta\_por add constraint (foreign key

(nro\_bps) references "ssorriba".cooperativa on delete cascade

constraint "pmachin".fkcompuestapor);

alter table "pmachin".compuesta\_por add constraint (foreign key

(nro\_dicose) references "ssorriba".establecimientos on delete

cascade constraint "pmachin".fkcompuestapor2);

alter table "pmachin".le\_pertenece add constraint (foreign key

(nro\_dicose) references "ssorriba".establecimientos on delete

cascade constraint "pmachin".fklepertenece1);

alter table "pmachin".le\_pertenece add constraint (foreign key

(ci) references "ssorriba".propietario on delete cascade

constraint "pmachin".fklepertenece2);

alter table "ssorriba".establecimientos add constraint (foreign

key (ci\_propietario) references "ssorriba".propietario on

delete cascade constraint "ssorriba".fkestablecimiento2);

alter table "pmachin".cuentan\_con add constraint (foreign key

(nro\_dicose) references "ssorriba".establecimientos on delete

cascade constraint "pmachin".fkcuentancon);

alter table "pmachin".cuentan\_con add constraint (foreign key

(nro\_animal) references "jbarzi".animales on delete cascade

constraint "pmachin".fkcuentancon2);

alter table "pmachin".protagonizan add constraint (foreign key

(nro\_identificador) references "jbarzi".animales on delete

cascade constraint "pmachin".fkprotagonizan);

alter table "pmachin".protagonizan add constraint (foreign key

(nro\_evento) references "fiza".eventos on delete cascade

constraint "pmachin".fkprotagonizan2);

alter table "pmachin".entore add constraint (foreign key (nro\_identificador\_toro)

references "jbarzi".animales on delete cascade constraint

"pmachin".fkentore1);

alter table "pmachin".entore add constraint (foreign key (nro\_identificador\_vaca)

references "jbarzi".animales on delete cascade constraint

"pmachin".fkentore2);

alter table "pmachin".tienen add constraint (foreign key (nro\_identificador\_toro,

nro\_identificador\_vaca) references "pmachin".entore on delete

cascade constraint "pmachin".fktienen);

alter table "pmachin".tienen add constraint (foreign key (nro\_identificador\_cria)

references "ipacheco".cria on delete cascade constraint "pmachin"

.fktienen2);

alter table "pmachin".salen add constraint (foreign key (nro\_identificador)

references "jbarzi".animales on delete cascade constraint

"pmachin".fksalen);

alter table "fiza".se\_convierte add constraint (foreign key (nro\_identificador)

references "jbarzi".animales on delete cascade constraint

"fiza".fksecon);

alter table "fiza".convertido add constraint (foreign key (nro\_identificador)

references "jbarzi".animales on delete cascade constraint

"fiza".fkconv);

alter table "fiza".parto add constraint (foreign key (nro\_evento)

references "fiza".eventos on delete cascade constraint "fiza"

.fkparto);

alter table "jbarzi".separadas\_en add constraint (foreign key

(nro\_lote) references "ipacheco".lotes on delete cascade

constraint "jbarzi".fkseparadasen2);

**7. Sentencias SQL de permisos a la Base de Datos**

grant dba to jbarzi;

grant dba to fiza;

grant dba to ipacheco;

grant dba to pmachin;

grant dba to bs\_adm\_sis1;

----------------------------------------------------------------

grant select on cooperativa to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on establecimientos to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on establecimientos to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant update on establecimientos to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant delete on establecimientos to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on telefonos\_establecimiento to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on telefonos\_establecimiento to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant update on telefonos\_establecimiento to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant delete on teléfonos\_establecimiento to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on propietario to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on propietario to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant update on propietario to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on telefonos\_propietario to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on telefonos\_propietario to bs\_adm\_est1, bs\_adm\_est2, bs\_aux\_1, bs\_aux\_2;

grant update on telefonos\_propietario to bs\_adm\_est1, bs\_adm\_est2, bs\_aux\_1, bs\_aux\_2;

grant delete on telefonos\_propietario to bs\_adm\_est1, bs\_adm\_est2, bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on eventos to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on eventos to bs\_aux\_1, bs\_aux\_2;

grant update on eventos to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------grant select on tipos\_de\_eventos to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on vendido to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on vendido to bs\_aux\_1, bs\_aux\_2;

grant update on vendido to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on enfermedad to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on enfermedad to bs\_aux\_1, bs\_aux\_2;

grant update on enfermedad to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on parto to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on parto to bs\_aux\_1, bs\_aux\_2;

grant update on parto to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on servicio to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on servicio to bs\_aux\_1, bs\_aux\_2;

grant update on servicio to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on tipos\_de\_servicio to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on muerte to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on muerte to bs\_aux\_1, bs\_aux\_2;

grant update on muerte to bs\_aux\_1, bs\_aux\_2;

grant select on animales to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on animales to bs\_aux1, bs\_aux2;

grant update on animales to bs\_aux1, bs\_aux2;

grant delete on animales to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on tipos\_de\_animales to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on animales\_no\_productivos to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on animales\_no\_productivos to bs\_aux\_1, bs\_aux\_2;

grant update on animales\_no\_productivos to bs\_aux\_1, bs\_aux\_2;

grant delete on animales\_no\_productivos to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on toro to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on toro to bs\_aux\_1, bs\_aux\_2;

grant update on toro to bs\_aux\_1, bs\_aux\_2;

grant delete on toro to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on vaca to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on vaca to bs\_aux\_1, bs\_aux\_2;

grant update on vaca to bs\_aux\_1, bs\_aux\_2;

grant delete on vaca to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on cria to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on cria to bs\_aux\_1, bs\_aux\_2;

grant update on cria to bs\_aux\_1, bs\_aux\_2;

grant delete on cria to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on campo\_de\_recria to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on campo\_de\_recria to bs\_aux\_1, bs\_aux\_2;

grant update on campo\_de\_recria to bs\_aux\_1, bs\_aux\_2;

grant delete on campo\_de\_recria to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on lotes to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on lotes to bs\_aux\_1, bs\_aux\_2;

grant update on lotes to bs\_aux\_1, bs\_aux\_2;

grant delete on lotes to bs\_aux\_1, bs\_aux\_2;

----------------------------------------------------------------

grant select on leche to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on compuesta\_por to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on compuesta\_por to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant update on compuesta\_por to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant delete on compuesta\_por to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on le\_pertenece to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on le\_pertenece to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant update on le\_pertenece to bs\_adm\_est1, bs\_adm\_est2, bs\_aux1, bs\_aux2;

grant delete on le\_pertenece to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on cuentan\_con to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on cuentan\_con to bs\_aux1, bs\_aux2;

grant update on cuentan\_con to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on protagonizan to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on protagonizan to bs\_aux1, bs\_aux2;

grant update on protagonizan to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on entore to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on entore to bs\_aux1, bs\_aux2;

grant update on entore to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on tienen to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on tienen to bs\_aux1, bs\_aux2;

grant update on tienen to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on salen to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on salen to bs\_aux1, bs\_aux2;

grant update on salen to bs\_aux1, bs\_aux2;

grant delete on salen to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on convertido to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on convertido to bs\_aux1, bs\_aux2;

grant update on convertido to bs\_aux1, bs\_aux2;

grant delete on convertido to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on se\_convierte to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on se\_convierte to bs\_aux1, bs\_aux2;

grant update on se\_convierte to bs\_aux1, bs\_aux2;

grant delete on se\_convierte to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on se\_dirige to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on se\_dirige to bs\_aux1, bs\_aux2;

grant update on se\_dirige to bs\_aux1, bs\_aux2;

grant delete on se\_dirige to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on separadas\_en to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on separadas\_en to bs\_aux1, bs\_aux2;

grant update on separadas\_en to bs\_aux1, bs\_aux2;

grant delete on separadas\_en to bs\_aux1, bs\_aux2;

----------------------------------------------------------------

grant select on producen to bs\_adm\_est1, bs\_adm\_est2, bs\_gerente1, bs\_gerente2, bs\_aux1, bs\_aux2;

grant insert on producen to bs\_aux1, bs\_aux2;

grant update on producen to bs\_aux1, bs\_aux2;

**8. Referencias Bibliográficas**