**Modelo Relacional Corregido**

**ASOCIACIONES**

|  |  |  |  |
| --- | --- | --- | --- |
| atributo | id | nombre | región |
| PK | PK |  |  |
| NN | NN | NN | NN |
| FK |  |  |  |
| Check |  |  | check(‘al’,’an’,’eu’,’ap’) |
| Unique |  | U |  |
| Type | number | varchar | char |

**PAISES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | id | nombre | nacionalidad | id\_asociacion |
| PK | PK |  |  |  |
| NN | NN | NN | NN |  |
| FK |  |  |  | FK |
| Check |  |  |  |  |
| Unique |  | U | U |  |
| Type | number | varchar | Varchar | number |

**PROVEEDORES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | nombre | correo | telefono | url\_web | id\_asoc |
| PK | PK |  |  |  |  |  |
| NN | NN | NN | NN | NN |  |  |
| FK |  |  |  |  |  | FK |
| Check |  |  |  |  |  |  |
| Unique |  |  | U | U | U |  |
| Type | number | varchar | varchar | varchar | varchar | number |

**PRODUCTORES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | nombre | correo | telefono | url\_web | id\_asoc |
| PK | PK |  |  |  |  |  |
| NN | NN | NN | NN | NN |  |  |
| FK |  |  |  |  |  | FK |
| Check |  |  |  |  |  |  |
| Unique |  |  | U | U | U |  |
| Type | number | varchar | varchar | varchar | varchar | number |

**MIEMBROS\_IFRA**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | fecha\_inicio | tipo | fecha\_fin | id\_proveedor | Id\_productor |
| PK | PK |  |  |  |  |  |
| NN | NN | NN | NN |  |  |  |
| FK |  |  |  |  | FK1 | FK2 |
| Check |  |  | check(‘p’,’s’,’a’) |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | date | char | date | number | number |

**METODOS\_DE\_PAGOS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | id\_proveedor | tipo | num\_cuotas | porcentaje | meses |
| PK | PK1 | PK1 |  |  |  |  |
| NN | NN | NN | NN |  |  |  |
| FK |  | FK |  |  |  |  |
| Check |  |  | Check(‘c’,’p’) |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | number | char | number | number | number |

**METODOS\_DE\_ENVIOS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | id\_proveedor | id\_pais | duracion | precio | tipo |
| PK | PK1 | PK1 | PK1 |  |  |  |
| NN | NN | NN | NN | NN | NN | NN |
| FK |  | FK1 | FK2 |  |  |  |
| Check |  |  |  |  |  | check(‘t’,’a’,’m’) |
| Unique |  |  |  |  |  |  |
| Type | number | number | number | number | number | char |

**DETALLES\_METODOS\_DE\_ENVIOS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | id | id\_envio | Id\_proveedor | id\_pais | nombre | mod\_precio | mod\_duracion |
| PK | PK1 | PK1 | PK1 | PK1 |  |  |  |
| NN | NN | NN | NN | NN | NN | NN | NN |
| FK |  | FK1 | FK1 | FK1 |  |  |  |
| Check |  |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |  |
| Type | number | number | number | number | varchar | number | number |

**PRODUCTORES\_PAISES**

|  |  |  |
| --- | --- | --- |
| atributo | id\_productor | id\_pais |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**ESCALAS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| atributo | fecha\_inicio | id\_productor | rango\_inicio | rango\_fin | fecha\_fin |
| PK | PK1 | PK1 |  |  |  |
| NN | NN | NN | NN | NN |  |
| FK |  | FK |  |  |  |
| Check |  |  |  |  |  |
| Unique |  |  |  |  |  |
| Type | date | number | number | number | date |

**CRITERIOS**

|  |  |  |  |
| --- | --- | --- | --- |
| atributo | Id | nombre | descripcion |
| PK | PK |  |  |
| NN | NN | NN |  |
| FK |  |  |  |
| Check |  |  |  |
| Unique |  |  |  |
| Type | number | varchar | varchar |

**HIST\_FORMULAS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | fecha\_inicio | id\_criterio | id\_productor | peso | tipo | fecha\_fin |
| PK | PK1 | PK1 | PK1 |  |  |  |
| NN | NN | NN | NN | NN | NN |  |
| FK |  | FK1 | FK2 |  |  |  |
| Check |  |  |  |  | check(‘i’,’a’) |  |
| Unique |  |  |  |  |  |  |
| Type | date | number | number | number | char | date |

**RESULTADOS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| atributo | fecha | id\_productor | id\_proveedor | resultado | tipo |
| PK | PK1 | PK1 | PK1 |  |  |
| NN | NN | NN | NN | NN | NN |
| FK |  | FK1 | FK2 |  |  |
| Check |  |  |  |  | check(‘i’,’a’) |
| Unique |  |  |  |  |  |
| Type | date | number | number | number | char |

**SUSTANCIAS\_PROHIBIDAS**

|  |  |  |
| --- | --- | --- |
| atributo | num\_cas | nombre |
| PK | PK |  |
| NN | NN | NN |
| FK |  |  |
| Check |  |  |
| Unique |  |  |
| Type | number | varchar |

**PERFUMISTAS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | pri\_nombre | pri\_apellido | seg\_apellido | id\_pais | seg\_nombre |
| PK | PK |  |  |  |  |  |
| NN | NN | NN | NN | NN | NN |  |
| FK |  |  |  |  | FK |  |
| Check |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | varchar | varchar | varchar | number | varchar |

**PERFUMES**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | nombre | genero | edad | monolitico | id\_productor |
| PK | PK |  |  |  |  |  |
| NN | NN | NN | NN | NN | NN | NN |
| FK |  |  |  |  |  | FK |
| Check |  |  | check(‘m’,’f’,’u’) | check(‘in’,’jo’,’ad’,’at’) |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | varchar | char | char | boolean | number |

**PERFUMES\_PERFUMISTAS**

|  |  |  |
| --- | --- | --- |
| atributo | id\_perfume | id\_perfumista |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**INTENSIDADES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| atributo | id | id\_perfume | tipo | porcentaje | descripcion |
| PK | PK1 | PK1 |  |  |  |
| NN | NN | NN | NN |  |  |
| FK |  | FK |  |  |  |
| Check |  |  | check(‘EdS’,’EdT’,’EdC’,’EdP’,’P’) |  |  |
| Unique |  |  |  |  |  |
| Type | number | number | char | number | varchar |

**PRESENTACIONES\_PERFUMES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | id | id\_perfume | id\_intensidad | volumen |
| PK | PK1 | PK1 | PK1 |  |
| NN | NN | NN | NN | NN |
| FK |  | FK1 | FK1 |  |
| Check |  |  |  |  |
| Unique |  |  |  |  |
| Type | number | number | number | number |

**ESENCIAS\_PERFUMES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | num\_cas | nombre | tipo | descripcion |
| PK | PK |  |  |  |
| NN | NN | NN | NN | NN |
| FK |  |  |  |  |
| Check |  |  | check('n’,’s’) |  |
| Unique |  |  |  |  |
| Type | number | varchar | char | varchar |

**MONOLITICOS**

|  |  |  |
| --- | --- | --- |
| atributo | id\_perfume | cas\_esencia |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**NOTAS**

|  |  |  |  |
| --- | --- | --- | --- |
| atributo | id\_perfume | cas\_esencia | tipo |
| PK | PK1 | PK1 |  |
| NN | NN | NN | NN |
| FK | FK1 | FK2 |  |
| Check |  |  | check(‘s’,’c’,’f’) |
| Unique |  |  |  |
| Type | number | number | char |

**FAMILIAS\_OLFATIVAS**

|  |  |  |
| --- | --- | --- |
| atributo | id | nombre |
| PK | PK |  |
| NN | NN | NN |
| FK |  |  |
| Check |  |  |
| Unique |  | U |
| Type | number | varchar |

**ESENCIAS\_PERFUMES\_FAMILIAS**

|  |  |  |
| --- | --- | --- |
| atributo | cas\_esencia | id\_familia |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**PERFUMES\_FAMILIAS**

|  |  |  |
| --- | --- | --- |
| atributo | id\_perfume | id\_familia |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**PALABRAS\_CLAVES**

|  |  |  |
| --- | --- | --- |
| atributo | id | palabra |
| PK | PK |  |
| NN | NN | NN |
| FK |  |  |
| Check |  |  |
| Unique |  | U |
| Type | number | varchar |

**FAMILIAS\_PALABRAS**

|  |  |  |
| --- | --- | --- |
| atributo | id\_palabra | id\_familia |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**OTROS\_INGREDIENTES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | cas\_otro\_ing | nombre | descripcion | id\_proveedor |
| PK | PK |  |  |  |
| NN | NN | NN | NN | NN |
| FK |  |  |  | FK |
| Check |  |  |  |  |
| Unique |  |  |  |  |
| Type | number | varchar | varchar | number |

**PRESENTACIONES\_OTROS\_INGREDIENTES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | id | cas\_otro\_ing | volumen | precio |
| PK | PK1 | PK1 |  |  |
| NN | NN | NN | NN | NN |
| FK |  | FK |  |  |
| Check |  |  |  |  |
| Unique |  |  |  |  |
| Type | number | number | number | number |

**OTROS\_COMPONENTES**

|  |  |  |
| --- | --- | --- |
| atributo | id\_perfume | cas\_otro\_ing |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**INGREDIENTES\_ESENCIAS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | cas\_ing\_esencia | nombre | naturaleza | id\_proveedor | nombre\_quim | pto\_inf |
| PK | PK |  |  |  |  |  |
| NN | NN | NN | NN | NN |  |  |
| FK |  |  |  | FK |  |  |
| Check |  |  | check(‘n’,’s’) |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | varchar | char | number | varchar | number |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | solubilidad | proc\_creac | parte\_proc | vida\_util | num\_einecs | rendimiento |
| PK |  |  |  |  |  |  |
| NN |  |  |  |  |  |  |
| FK |  |  |  |  |  |  |
| Check |  |  |  |  |  |  |
| Unique |  |  |  |  | U |  |
| Type | number | varchar | varchar | number | number | number |

**INGREDIENTES\_ESENCIAS\_PAISES**

|  |  |  |
| --- | --- | --- |
| atributo | id\_pais | cas\_ing\_esencia |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**PRESENTACIONES\_INGREDIENTES\_ESENCIAS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | id | cas\_ing\_esencia | volumen | precio |
| PK | PK1 | PK1 |  |  |
| NN | NN | NN | NN | NN |
| FK |  | FK |  |  |
| Check |  |  |  |  |
| Unique |  |  |  |  |
| Type | number | number | number | number |

**ING\_ESENCIAS\_OTROS\_ING**

|  |  |  |
| --- | --- | --- |
| atributo | cas\_otro\_ing | cas\_ing\_esencia |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**ING\_ESENCIAS\_FAMILIAS**

|  |  |  |
| --- | --- | --- |
| atributo | id\_familia | cas\_ing\_esencia |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**CONTRATOS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | fecha\_apertura | id\_proveedor | id\_productor | exclusivo | cancelacion | razon\_cierre |
| PK | PK1 | PK1 | PK1 |  |  |  |
| NN | NN | NN | NN | NN |  |  |
| FK |  | FK1 | FK2 |  |  |  |
| Check |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | date | number | number | boolean | boolean | varchar |

**RENOVACIONES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| atributo | id | fecha\_apertura | id\_proveedor | id\_productor | fecha\_renovacion |
| PK | PK1 | PK1 | PK1 | PK1 |  |
| NN | NN | NN | NN | NN | NN |
| FK |  | FK1 | FK1 | FK1 |  |
| Check |  |  |  |  |  |
| Unique |  |  |  |  |  |
| Type | number | date | number | number | date |

**DETALLES\_CONTRATOS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | id | fecha\_apertura | id\_proveedor | id\_productor | precio | descuento | cas\_otro | cas\_esencia |
| PK | PK1 | PK1 | PK1 | PK1 |  |  |  |  |
| NN | NN | NN | NN | NN |  |  |  |  |
| FK |  | FK1 | FK1 | FK1 |  |  | FK2 | FK3 |
| Check |  |  |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |  |  |
| Type | number | date | number | number | number | number | number | number |

**METODOS\_CONTRATOS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | fecha\_cont | id\_proveedor | id\_productor | id\_pago | Id\_prov\_pago |
| PK | PK1 | PK1 | PK1 | PK1 |  |  |
| NN | NN | NN | NN | NN |  |  |
| FK |  | FK1 | FK1 | FK1 | FK2 | FK2 |
| Check |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | date | number | number | number | number |

|  |  |  |  |
| --- | --- | --- | --- |
| atributo | id\_envio | id\_prov\_envio | id\_pais\_envio |
| PK |  |  |  |
| NN |  |  |  |
| FK | FK3 | FK3 | FK3 |
| Check |  |  |  |
| Unique |  |  |  |
| Type | number | number | number |

**PEDIDOS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | num\_pedido | fecha\_pedido | estatus | id\_proveedor | id\_productor | fecha\_envio | factura | monto |
| PK | PK |  |  |  |  |  |  |  |
| NN | NN | NN | NN | NN | NN |  |  |  |
| FK |  |  |  | FK1 | FK2 |  |  |  |
| Check |  |  | check(‘p’,’e’,’cprod,’cprov’) |  |  |  |  |  |
| Unique |  |  |  |  |  |  |  |  |
| Type | number | date | char | number | number | date | number | number |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | id\_envio | fecha\_ap\_envio | id\_prod\_envio | id\_prov\_envio | id\_pago | fecha\_ap\_pago | Id\_prod\_pago | id\_prov\_pago |
| PK |  |  |  |  |  |  |  |  |
| NN |  |  |  |  |  |  |  |  |
| FK | FK3 | FK3 | FK3 | FK3 | FK4 | FK4 | FK4 | FK4 |
| Check |  |  |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |  |  |
| Type | number | date | number | number | number | date | number | number |

**DETALLES\_PEDIDOS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | id | num\_pedido | cantidad | id\_pres\_esencia | cas\_esencia | id\_pres\_otro | cas\_otro |
| PK | PK1 | PK1 |  |  |  |  |  |
| NN | NN | NN | NN |  |  |  |  |
| FK |  | FK1 |  | FK2 | FK2 | FK3 | FK3 |
| Check |  |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |  |
| Type | number | number | number | number | number | number | number |

**PAGOS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | num\_pago | num\_pedido | fecha\_pago | monto |
| PK | PK1 | PK1 |  |  |
| NN | NN | NN | NN | NN |
| FK |  | FK |  |  |
| Check |  |  |  |  |
| Unique |  |  |  |  |
| Type | number | number | date | number |

**Leyenda de Constraints:**

|  |  |
| --- | --- |
| Tablas | Siglas |
| Asociaciones | al = América Latina  an = América del Norte  eu = Europa  ap = Asia Pacifico |
| Miembros\_IFRA | p = Primario  s = Secundario  a = De una asociación |
| Metodos\_de\_Pagos | c = Completo  p = Parcial |
| Metodos\_de\_Envios | t = Terrestre  m = Marítimo  a = Aéreo |
| Hist\_Formulas  Resultados | i = Inicial  a = Anual |
| Perfumes | m = Masculino  f = Femenino  u = Unisex  in = Infantil  jo = Joven  ad = Adulto  at = Atemporal |
| Intensidades | EdS = Eau du Splash  EdT = Eau du Toilette  EdC = Eau du Cologne  EdP = Eau du Perfume  P = Perfume |

|  |  |
| --- | --- |
| Tablas | Siglas |
| Esencias\_Perfumes  Ingredientes\_Esencias | n = Natural  s = Sintético |
| Notas | s = Salida  c = Corazón  f = Fondo |
| Pedidos | p = Pendiente  e = Enviado  cprov = Cancelado por Proveedor  cprod = Cancelado por Productor |