**Modelo Relacional Corregido**

**FAMILIAS\_OLFATIVAS PALABRAS\_CLAVES**

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

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

**PAISES**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | id | nombre | región | id\_pais |
| PK | PK |  |  |  |
| NN | NN | NN | NN | NN |
| FK |  |  |  | FK |
| Check |  |  | ¿Región no Check? |  |
| Unique |  | U |  | U |
| Type | number | varchar | Varchar | number |

**ASOCIACIONES**

**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 |

**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 |

**MIEMBROS\_IFRA**

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

**PERFUMISTA**

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

**CRITERIOS PRODUCTORES\_PAISES**

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

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

**ESCALAS**

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

**HIST\_FORMULAS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | fecha\_inicio | id\_criterio | id\_prod | 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\_prod | id\_prov | resultado | tipo\_eval | puntaje\_tot |
| PK | PK1 | PK1 | PK1 |  |  |  |
| NN | NN | NN | NN | NN | NN | NN |
| FK |  | FK1 | FK2 |  |  |  |
| Check |  |  |  | check(‘a’,’r’) | check(‘i’,’a’) |  |
| Unique |  |  |  |  |  |  |
| Type | date | number | number | char | char | number |

**METODOS\_DE\_PAGOS**

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

**DETALLES\_METODOS\_ENVIOS**

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

**PERFUMES**

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

**INGREDIENTES\_ESENCIAS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | num\_cas | nombre | naturaleza | pto\_inflam | nombre\_quimico | solubilidad |
| PK | PK |  |  |  |  |  |
| NN | NN | NN | NN |  |  |  |
| FK |  |  |  |  |  |  |
| Check |  |  | check(‘n’,’s’) |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | varchar | char | number | varchar | number |

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

**INGS\_ESENCIAS\_PAISES PERFUMES\_PERFUMISTAS**

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

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

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

**INTENSIDADES**

**PRESENTACIONES\_PERFUMES**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| atributo | id | id\_intensidad | Id\_perfume | 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 |

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

**SUSTANCIAS\_PROHIBIDAS NOTAS**

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

**MONOLITICOS PERFUMES\_FAMILIAS**

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

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

**FAMILIAS\_PALABRAS ESENCIAS\_PERFUMES\_FAMILIAS**

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

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

**PRESENTACIONES\_INGS\_ESENCIAS**

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

**OTROS\_INGREDIENTES**

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

**PRESENTACIONES\_OTROS\_INGREDIENTES**

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

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

**INGS\_ESENCIAS\_OTROS INGS\_ESENCIAS\_FAMILIAS**

|  |  |  |
| --- | --- | --- |
| atributo | cas\_ie | cas\_oi |
| PK | PK1 | PK1 |
| NN | NN | NN |
| FK | FK1 | FK2 |
| Check |  |  |
| Unique |  |  |
| Type | number | number |

**OTROS\_COMPONENTES**

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

**CONTRATOS**

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

**RENOVACION**

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | id | fecha\_ap | id\_productor | id\_proveedor | 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 |

**METODOS\_CONTRATOS**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | id | fecha\_ap | id\_proveedor | id\_productor | cas\_ie | cas\_oi | precio\_cont |
| 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 |

**DETALLES\_CONTRATOS**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | numero | fecha | estatus | id\_proveedor | Id\_productor | fecha\_envio | monto | factura | id\_envio |
| PK | PK |  |  |  |  |  |  |  |  |
| NN | NN | NN | NN | NN | NN |  |  |  |  |
| FK |  |  |  | FK1 | FK2 |  |  |  | FK3 |
| Check |  |  | check(‘p’,’c’,’cprod’,’cprov’) |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |  |  |  |
| Type | number | date | char | number | number | date | number | number | number |

**PEDIDOS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| atributo | 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 | FK4 | FK4 | FK4 | FK4 |
| Check |  |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |  |
| Type | date | number | number | number | date | number | number |

**DETALLES\_PEDIDOS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| atributo | num\_pedido | cantidad | cas\_oi | pres\_oi | cas\_ie | pres\_ie |
| PK | PK |  |  |  |  |  |
| NN | NN | NN |  |  |  |  |
| FK |  |  | FK1 | FK1 | FK2 | FK2 |
| Check |  |  |  |  |  |  |
| Unique |  |  |  |  |  |  |
| Type | number | number | number | number | number | number |

**PAGOS**

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

**Leyenda de Constraints:**

|  |  |
| --- | --- |
| Tabla | Siglas |
| Miembros\_IFRA | p = Primario  s = Secundario  a = De una asociación |
| Hist\_Formulas | i = Inicial  a = Anual |
| Resultados | i = Inicial  a = Anual  r = Reprobado  a = Aprobado |
| Metodos\_De\_Pagos | c = Completo  p = Por cuotas |
| Metodos\_De\_Envios | m = Marítimo  a = Aéreo  t = Terrestre |
| Perfumes | m = Masculino  f = Femenino  u = Unisex  at = Atemporal  in = Infantil  jo = Joven  ad = Adulto |
| Ingredientes\_Esencias  Esencias\_Perfumes | n = Natural  s = Sintético |
| Intensidades | P = Perfume  EdP = Eau du Perfume  EdT = Eau du Toilette  EdC = Eau du Cologne  EdS = Eau du Splash |
| Notas | s = Salida  c = Corazón  f = Fondo |
| Pedidos | p = Por confirmar  c = Confirmado  cprov = Cancelado por proveedor  cprod = Cancelado por productor |