**Datos de la Tabla Estudiante**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID Estudiante** | **Nombre Estudiante** | **Ubicación Domicilio** | **ID**  **Curso** | **Curso** |
| S101 | Joseph  Daniel | New York | CS201 | Sistema de Administración de Base de Datos |
| S102 | Jerry Jones | San José | CS202 | Análisis y Diseño Orientado a Objetos |
| S101 | Joseph  Daniel | New York | CS202 | Análisis y Diseño Orientado a Objetos |
| S103 | Carl Baker | Washington | CS203 | Ingeniería de Software |

**Tabla Estudiante**

|  |  |  |
| --- | --- | --- |
| **IDEstudiante** | **NombreEstudiante** | **UbicaciónCasa** |
| S101 | Joseph Daniel | New York |
| S102 | Jerry Jones | San José |
| S103 | Carl Baker | Washington |

**Tabla Curso**

|  |  |
| --- | --- |
| **IDCurso** | **Curso** |
| CS201 | Sistema de Administración de Base de Datos |
| CS202 | Análisis y Diseño Orientado a Objetos |
| CS203 | Ingeniería de Software |

**Tabla EstudianteCurso**

|  |  |
| --- | --- |
| **IDEstudiante** | **IDCurso** |
| S101 | CS201 |
| S101 | CS202 |
| S102 | CS202 |
| S103 | CS203 |

**Tabla Orden Con Grupos Repetidos**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID**  **Orden** | **Fecha**  **Orden** | **Cliente** | **Email**  **Cliente** | **Grado** | **Puntos Crédito** | **Nombre Item** | **Cant**  **Reque** | **Precio**  **Unitario** |
| 1 | 11/30/1998 | Joe Smith | joe@ewr.com | A | 1 | Martillo | 5 | $25 |
| 1 | 11/30/1998 | Joe Smith | joe@ewr.com | A | 1 | Sierra | 10 | $30 |
| 1 | 11/30/1998 | Joe Smith | joe@ewr.com | A | 1 | Clavos | 15 | $40 |
| 2 | 12/3/1998 | Sam | sam@ter.com | B | 4 | Sierra | 20 | $30 |
| 2 | 12/3/1998 | Sam | sam@ter.com | B | 4 | Clavos | 25 | $40 |

**Tabla Ordenes**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **IdOrden** | **FechaOrden** | **Cliente** | **EmailCliente** | **Grado** | **Puntos Crédito** |
| 1 | 11/30/1998 | Joe Smith | joe@iewr.com | A | 1 |
| 2 | 12/3/1998 | Sam | sam@ter.com | B | 4 |

**Tabla Articulo por Orden**

|  |  |  |  |
| --- | --- | --- | --- |
| **IdOrden** | **NombreItem** | **Cant Reque** | **Precio Unitario** |
| 1 | Martillo | 5 | $25 |
| 1 | Sierra | 10 | $30 |
| 1 | Clavos | 15 | $40 |
| 2 | Sierra | 20 | $30 |
| 2 | Clavos | 25 | $40 |

**DetalleOrden**

|  |  |  |  |
| --- | --- | --- | --- |
| **IdOrden** | **IdItem** | **Cant Reque** | **Precio Unitario Venta** |
| 1 | 1 | 5 | $25 |
| 1 | 2 | 10 | $30 |
| 1 | 3 | 15 | $40 |
| 2 | 2 | 20 | $30 |
| 2 | 3 | 25 | $40 |

**Tabla Item**

|  |  |  |
| --- | --- | --- |
| **IdItem** | **Nombre Item** | **Precio Unitario** |
| 1 | Martillo | $25 |
| 2 | Sierra | $30 |
| 3 | Clavos | $40 |

**CLIENTE**

|  |  |  |  |
| --- | --- | --- | --- |
| **IdCliente** | **Cliente** | **EmailCliente** | **Puntos Credito** |
| 1 | Joe Smith | joe@ewr.com | 1 |
| 2 | Sam | sam@ter.com | 4 |

**PUNTOSCREDITO**

|  |  |
| --- | --- |
| **Puntos**  **Crédito** | **Grado** |
| 1 | A |
| 2 | A |
| 3 | A |
| 4 | B |
| 5 | B |
| 6 | B |
| 7 | C |
| 8 | C |
| 9 | C |

**Tabla Orden**

|  |  |  |
| --- | --- | --- |
| **IdOrden** | **FechaOrden** | **IdCliente** |
| 1 | 11/30/1998 | 1 |
| 2 | 12/3/1998 | 2 |

**Tabla que Contiene dos columnas independientes Multi-Valuadas**

|  |  |  |
| --- | --- | --- |
| **Persona** | **PaisesVisitados** | **PremiosRecibidos** |

**Tabla que Contiene Valores en sólo una de las Columnas**

|  |  |  |
| --- | --- | --- |
| **Persona** | **PaisesVisitados** | **PremiosRecibidos** |
| Scott | Germany |  |
| Scott | France |  |
| Scott |  | Grammy |
| Scott |  | Oscar |
| Scott |  | Premio Nobel |

**Países Visitados**

**4NF Datos de la Tabla PaisesVisitados**

|  |  |
| --- | --- |
| **Persona** | **PaisesVisitados** |
| Scott | Alemania |
| Scott | Francia |

**PremiosRecibidos**

**4NF Datos de la Tabla PremiosRecibidos**

|  |  |
| --- | --- |
| **Persona** | **PremisoRecibidos** |
| Scott | Grammy |
| Scott | Oscar |
| Scott | Premio Nobel |