**proyecto\_ingenieria**

abono\_cxc

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_abono\_cxc *(Primaria)* | int(11) | No |  |  |  |  |
| id\_cuenta\_por\_cobrar | int(11) | Sí | *NULL* | cuentas\_por\_cobrar -> id\_cuenta\_por\_cobrar |  |  |
| fecha\_abono | date | Sí | *NULL* |  |  |  |
| monto\_abono | int(11) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_abono\_cxc | 0 | A | No |  |
| id\_cuenta\_por\_cobrar | BTREE | No | No | id\_cuenta\_por\_cobrar | 0 | A | Sí |  |

abono\_cxp

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_abono\_cxp *(Primaria)* | int(11) | No |  |  |  |  |
| id\_cuenta\_por\_pagar | int(11) | Sí | *NULL* | cuentas\_por\_pagar -> id\_cuenta\_por\_pagar |  |  |
| fecha\_abono | date | Sí | *NULL* |  |  |  |
| monto\_abono | int(11) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_abono\_cxp | 0 | A | No |  |
| id\_cuenta\_por\_pagar | BTREE | No | No | id\_cuenta\_por\_pagar | 0 | A | Sí |  |

categorias

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_categoria *(Primaria)* | int(11) | No |  |  |  |  |
| nombre | varchar(200) | No |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_categoria | 0 | A | No |  |

clientes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_cliente *(Primaria)* | int(11) | No |  |  |  |  |
| nombre | varchar(100) | Sí | *NULL* |  |  |  |
| apellido | varchar(100) | Sí | *NULL* |  |  |  |
| direccion | varchar(200) | Sí | *NULL* |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| fecha\_de\_nacimiento | date | Sí | *NULL* |  |  |  |
| telefono | varchar(9) | Sí | *NULL* |  |  |  |
| correo\_electrónico | varchar(100) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_cliente | 0 | A | No |  |

compras

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_compra *(Primaria)* | int(11) | No |  |  |  |  |
| id\_usuario | int(11) | Sí | *NULL* | usuarios -> id\_usuario |  |  |
| fecha | date | Sí | *NULL* |  |  |  |
| metodo\_compra | varchar(20) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_compra | 0 | A | No |  |
| id\_usuario | BTREE | No | No | id\_usuario | 0 | A | Sí |  |

cuentas\_por\_cobrar

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_cuenta\_por\_cobrar *(Primaria)* | int(11) | No |  |  |  |  |
| id\_factura | int(11) | Sí | *NULL* | facturas -> id\_factura |  |  |
| estado | int(11) | Sí | *NULL* |  |  |  |
| fecha\_vencimiento | date | Sí | *NULL* |  |  |  |
| monto\_total | int(11) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_cuenta\_por\_cobrar | 0 | A | No |  |
| id\_factura | BTREE | No | No | id\_factura | 0 | A | Sí |  |

cuentas\_por\_pagar

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_cuenta\_por\_pagar *(Primaria)* | int(11) | No |  |  |  |  |
| id\_compra | int(11) | Sí | *NULL* | compras -> id\_compra |  |  |
| estado | int(11) | Sí | *NULL* |  |  |  |
| monto\_total | int(11) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_cuenta\_por\_pagar | 0 | A | No |  |
| id\_compra | BTREE | No | No | id\_compra | 0 | A | Sí |  |

facturas

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_factura *(Primaria)* | int(11) | No |  |  |  |  |
| id\_usuario | int(11) | Sí | *NULL* | usuarios -> id\_usuario |  |  |
| id\_cliente | int(11) | Sí | *NULL* | clientes -> id\_cliente |  |  |
| fecha | date | Sí | *NULL* |  |  |  |
| metodo\_compra | varchar(20) | Sí | *NULL* |  |  |  |
| valor\_antes\_impuestos | double | Sí | *NULL* |  |  |  |
| valor\_despues\_impuestos | double | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_factura | 0 | A | No |  |
| id\_usuario | BTREE | No | No | id\_usuario | 0 | A | Sí |  |
| id\_cliente | BTREE | No | No | id\_cliente | 0 | A | Sí |  |

login

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_login *(Primaria)* | int(11) | No |  |  |  |  |
| id\_usuario | int(11) | Sí | *NULL* | usuarios -> id\_usuario |  |  |
| user | varchar(50) | No |  |  |  |  |
| pass | varchar(20) | No |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_login | 0 | A | No |  |
| user | BTREE | Sí | No | user | 0 | A | No |  |
| id\_usuario | BTREE | No | No | id\_usuario | 0 | A | Sí |  |

producto

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_producto *(Primaria)* | int(11) | No |  |  |  |  |
| cod\_producto | varchar(200) | No |  |  |  |  |
| nombre\_producto | varchar(200) | No |  |  |  |  |
| precio | decimal(10,0) | No |  |  |  |  |
| cantidad | int(11) | No |  |  |  |  |
| id\_proveedor | int(11) | Sí | *NULL* | proveedores -> id\_proveedor |  |  |
| id\_categoria | int(11) | Sí | *NULL* | categorias -> id\_categoria |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_producto | 0 | A | No |  |
| id\_proveedor | BTREE | No | No | id\_proveedor | 0 | A | Sí |  |
| id\_categoria | BTREE | No | No | id\_categoria | 0 | A | Sí |  |

productos\_compra

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_producto\_compra *(Primaria)* | int(11) | No |  |  |  |  |
| id\_compra | int(11) | Sí | *NULL* | compras -> id\_compra |  |  |
| id\_producto | int(11) | Sí | *NULL* | producto -> id\_producto |  |  |
| cantidad | int(11) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_producto\_compra | 0 | A | No |  |
| id\_compra | BTREE | No | No | id\_compra | 0 | A | Sí |  |
| id\_producto | BTREE | No | No | id\_producto | 0 | A | Sí |  |

productos\_factura

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_producto\_factura *(Primaria)* | int(11) | No |  |  |  |  |
| id\_factura | int(11) | Sí | *NULL* | facturas -> id\_factura |  |  |
| id\_producto | int(11) | Sí | *NULL* | producto -> id\_producto |  |  |
| cantidad | int(11) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_producto\_factura | 0 | A | No |  |
| id\_factura | BTREE | No | No | id\_factura | 0 | A | Sí |  |
| id\_producto | BTREE | No | No | id\_producto | 0 | A | Sí |  |

productos\_proforma

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_producto\_proforma *(Primaria)* | int(11) | No |  |  |  |  |
| id\_proforma | int(11) | Sí | *NULL* | proformas -> id\_proforma |  |  |
| id\_producto | int(11) | Sí | *NULL* | producto -> id\_producto |  |  |
| cantidad | int(11) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_producto\_proforma | 0 | A | No |  |
| id\_proforma | BTREE | No | No | id\_proforma | 0 | A | Sí |  |
| id\_producto | BTREE | No | No | id\_producto | 0 | A | Sí |  |

proformas

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_proforma *(Primaria)* | int(11) | No |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| id\_usuario | int(11) | Sí | *NULL* | usuarios -> id\_usuario |  |  |
| id\_cliente | int(11) | Sí | *NULL* | clientes -> id\_cliente |  |  |
| fecha | date | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_proforma | 0 | A | No |  |
| id\_usuario | BTREE | No | No | id\_usuario | 0 | A | Sí |  |
| id\_cliente | BTREE | No | No | id\_cliente | 0 | A | Sí |  |

proveedores

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_proveedor *(Primaria)* | int(11) | No |  |  |  |  |
| cod\_proveedor | varchar(200) | No |  |  |  |  |
| nombre\_proveedor | varchar(200) | No |  |  |  |  |
| direccion | varchar(200) | No |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_proveedor | 0 | A | No |  |

telefonos

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_telefono *(Primaria)* | int(11) | No |  |  |  |  |
| telefono | varchar(9) | No |  |  |  |  |
| id\_proveedor | int(11) | Sí | *NULL* | proveedores -> id\_proveedor |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_telefono | 0 | A | No |  |
| id\_proveedor | BTREE | No | No | id\_proveedor | 0 | A | Sí |  |

usuarios

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Columna** | **Tipo** | **Nulo** | **Predeterminado** | **Enlaces a** | **Comentarios** | **Media (MIME) type** |
| id\_usuario *(Primaria)* | int(11) | No |  |  |  |  |
| nombre | varchar(100) | Sí | *NULL* |  |  |  |
| direccion | varchar(200) | Sí | *NULL* |  |  |  |
| telefono | varchar(9) | Sí | *NULL* |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Nombre de la clave** | **Tipo** | **Único** | **Empaquetado** | **Columna** | **Cardinalidad** | **Cotejamiento** | **Nulo** | **Comentario** |
| PRIMARY | BTREE | Sí | No | id\_usuario | 0 | A | No |  |