Documentation Pandora ERP system.

3. Purchasing and supplier companies.

Description operation purchase table (orders_inkoop Dutch)
Purchase (orders_inkoop Dutch) orders table and its connections.
Purchase product lines (orders_inkoop_artikelen Dutch)
Purchase services lines (orders_inkoop_diensten Dutch)

```
bisystem=# \d orders_inkoop
                      Table "public.orders_inkoop"
    Column     |         Type          | Collation | Nullable |        Default
---------------+-----------------------+-----------+----------+----------------------
 orderinkoopID | integer               |           | not null |
 besteldatum   | character varying(10) |           |          | ''::character varying
 goedgekeurd   | character varying(10) |           |          | ''::character varying
 afgemeld      | character varying(10) |           |          | ''::character varying
 betaald       | character varying(10) |           |          | ''::character varying
 leverancierID | integer               |           |          |
 status        | integer               |           |          | 0
Indexes:
    "orders_inkoop_pkey" PRIMARY KEY, btree ("orderinkoopID")
Foreign-key constraints:
    "leveranciers_leverancierID_fkey" FOREIGN KEY ("leverancierID") REFERENCES leveranciers("leverancierID")
Referenced by:
    TABLE "dienstenmutaties" CONSTRAINT "orders_inkoop_orderinkoopID" FOREIGN KEY ("orderinkoopID") REFERENCES orders_inkoop("orderinkoopID")
    TABLE "orders_inkoop_diensten" CONSTRAINT "orders_inkoop_orderinkoopID" FOREIGN KEY ("orderinkoopID") REFERENCES orders_inkoop("orderinkoopID")
    TABLE "orders_inkoop_artikelen" CONSTRAINT "orders_inkoop_orderinkoopID_fkey" FOREIGN KEY ("orderinkoopID") REFERENCES orders_inkoop("orderinkoopID")
    TABLE "artikelmutaties" CONSTRAINT "orders_inkoop_orderinkoopID_fkey" FOREIGN KEY ("orderinkoopID") REFERENCES orders_inkoop("orderinkoopID")
```

```
bisystem=# \d  orders_inkoop_artikelen
                      Table "public.orders_inkoop_artikelen"
        Column         |         Type          | Collation | Nullable |        Default
-----------------------+-----------------------+-----------+----------+----------------------
 ordartlevID           | integer               |           | not null |
 orderinkoopID         | integer               |           |          |
 artikelID             | integer               |           |          |
 bestelaantal          | double precision      |           |          | 0
 inkoopprijs           | double precision      |           |          | 0
 levering_eind         | character varying(10) |           |          |
 reclamatie            | character varying(10) |           |          | ''::character varying
 aantal_reclamaties    | integer               |           |          | 0
 ontvangstdatum        | character varying(10) |           |          | ''::character varying
 ontvangen_hoeveelheid | double precision      |           |          | 0
 acceptatie_datum      | character varying(10) |           |          | ''::character varying
 hoeveelheid_acceptatie| double precision      |           |          | 0
 betaald               | double precision      |           |          | 0
 regel                 | integer               |           |          | 0
 levering_start        | character varying(10) |           |          | ''::character varying
Indexes:
    "orders_inkoop_artikelen_pkey" PRIMARY KEY, btree ("ordartlevID")
Foreign-key constraints:
    "artikelen_artikelID_fkey" FOREIGN KEY ("artikelID") REFERENCES artikelen("artikelID")
    "orders_inkoop_orderinkoopID_fkey" FOREIGN KEY ("orderinkoopID") REFERENCES orders_inkoop("orderinkoopID")
```

```
bisystem=# \d  orders_inkoop_diensten
                      Table "public.orders_inkoop_diensten"
      Column       |         Type          | Collation | Nullable |        Default
-------------------+-----------------------+-----------+----------+----------------------
 orddienstlevID    | integer               |           | not null |
 orderinkoopID     | integer               |           |          |
 aanneemsom        | double precision      |           |          | 0
 acceptatie_gereed | double precision      |           |          | 0
 acceptatie_datum  | character varying(10) |           |          | ''::character varying
 werknummerID      | integer               |           |          |
 omschrijving      | character varying(50) |           |          | ''::character varying
 plan_start        | character varying(10) |           |          | ''::character varying
 werk_start        | character varying(10) |           |          | ''::character varying
 plan_gereed       | character varying(10) |           |          | ''::character varying
 werk_gereed       | character varying(10) |           |          | ''::character varying
 werkomschr        | character varying(30) |           |          | ''::character varying
 regel             | integer               |           |          | 1
 meerminderwerk    | double precision      |           |          | 0
Indexes:
    "orders_inkoop_diensten_pkey" PRIMARY KEY, btree ("orddienstlevID")
Foreign-key constraints:
    "orders_inkoop_orderinkoopID" FOREIGN KEY ("orderinkoopID") REFERENCES orders_inkoop("orderinkoopID")
    "werken_werknummerID_fkey" FOREIGN KEY ("werknummerID") REFERENCES werken("werknummerID")
```

Supplier (Leveranciers Dutch) table and its connections.

```
bisystem=# \d leveranciers
                        Table "public.leveranciers"
    Column      |         Type          | Collation | Nullable |        Default
----------------+-----------------------+-----------+----------+------------------------
 leverancierID  | integer               |           | not null |
 bedrijfsnaam   | character varying(50) |           |          | ''::character varying
 postcode       | character varying(6)  |           |          |
 huisnummer     | character varying(5)  |           |          |
 rechtsvorm     | character varying(10) |           |          | ''::character varying
 toevoeging     | character varying(6)  |           |          |
 telnr          | character varying(10) |           |          |
 btwnummer      | character varying(14) |           |          | ''::character varying
 kvknummer      | character varying(10) |           |          | ''::character varying
Indexes:
    "leveranciers_pkey" PRIMARY KEY, btree ("leverancierID")
Referenced by:
    TABLE "lev_accounts" CONSTRAINT "leveranciers_leverancierID" FOREIGN KEY ("leverancierID") REFERENCES leveranciers("leverancierID")
    TABLE "orders_inkoop" CONSTRAINT "leveranciers_leverancierID_fkey" FOREIGN KEY ("leverancierID") REFERENCES leveranciers("leverancierID")
    TABLE "dienstenmutaties" CONSTRAINT "leveranciers_leverancierID_fkey" FOREIGN KEY ("leverancierID") REFERENCES leveranciers("leverancierID")
```

Ordering products:
The purchase is initiated from the module artikelbestellingen(item orders) and the table artikelen.
The amount of ordering is determined for reserved stock (categorie >4):, by stock+reservations –
order balance (categorie > 4) , and by minimum stock driven (categorie < 5), stock+bestelsaldo <
minimum stock. With the module opvrArtikelen it is possible to query these components., with the
the menu Magazijn (warehouse) submenu opvragen Artikelen lines 7 and 8.
The printing of the purchase orders is also done with the module artikelbestellingen. The printed
orders go to the purchasing department.
Then the order is made the bestelsaldo (order balance) is increased at the tables artikelen and the
order status is blocked until delivery and approval..
The orderrules are added at table materiaallijsten with ordered product, quantity, reservations and
order balance.
Then the order is delivered and approved, the order status is released, the order balance is reduced,
and stock is added by the number supplied on table artikelen. The order balance is reduced on table
materiaallijsten.
After checking the bill is sent to accountancy for payment.

Ordering Services and Material
 Diensten:
The purchase order is initiated after linking from calculation to worknumber.
The diensten and equipment are stored in werken as amounts for services and hours as material and
as totals added in diensten.
When amounts are changed in orders the budgetchanges are booked as less/more work.
Also a orderlist is printed for ordering by the purchase department.

On basis of the description from the orderlist, an order with lines is made for the subcontractor.
The services are divided in groups:

1. Inhuur (Hiring)
2. Leiding (Leadership)
3. Huisvesting (Housing siteoffice including public facilities)
4. Kabelwerk (Cableworks)
5. Grondverzet (EarthMoving)
6. Betonwerk (Concrete)n
7. Vervoer (Transportation)
8. Overig (Other Services)

Material:
A. Sleuvengraver (Trencher)
B. Persapparaat (Pressing machine)
C. Atlaskraan   (Atlas faucet)
D. Kraan groot (Crane big)
E. Mainliner   (Mainliner track)
F. Hormachine (ballast clearing machine)
G. Wagon   (Flat wagon)
H. Locomotor (Locomotor)
J. Locomotief   (Locotive)
K. Montagewagen (Assembly venture)
L. Stormobiel (Stormobile)
M. Robeltrein (Robel train)

The activities are stored in table orders_inkoop_diensten.
When an activity is ready , approved and the subcontractor sends the bill, the activity transaction is booked with menuitem Werken Extern item 6. Muteren kosten diensten in the table dienstenmutaties (services transactions). Also the costs of the activities are added in table werken, in the field according to the relevant group.
After checking the bill is sent to accountancy for payment.