Documentation Pandora ERP system.

10. Maintenance and parameters.

```
bisystem=# \d accounts
                                  Table "public.accounts"
     Column      |          Type          | Collation | Nullable |           Default
-----------------+------------------------+-----------+----------+-----------------------------
 accountID       | integer                |           | not null |
 aanhef          | character varying(8)   |           |          | ''::character varying
 voornaam        | character varying(30)  |           |          | ''::character varying
 tussenvoegsel   | character varying(10)  |           |          | ''::character varying
 achternaam      | character varying(50)  |           |          | ''::character varying
 postcode        | character varying(6)   |           |          | ''::character varying
 huisnummer      | character varying(5)   |           |          |
 telnr           | character varying(10)  |           |          |
 toevoeging      | character varying(8)   |           |          | ''::character varying
 email           | character varying(255) |           |          |
 password        | character varying(255) |           |          |
 account_created | character varying(10)  |           |          |
 account_count   | integer                |           |          |
 geboortedatum   | character varying(10)  |           |          |
 p1              | character varying(8)   |           |          | 10111100
 p2              | character varying(8)   |           |          | '00000000'::character varying
 p3              | character varying(8)   |           |          | '00000000'::character varying
 p4              | character varying(8)   |           |          | '00000000'::character varying
 p5              | character varying(8)   |           |          | '00000000'::character varying
 p6              | character varying(8)   |           |          | '00000000'::character varying
 p7              | character varying(8)   |           |          | '00000000'::character varying
 p8              | character varying(8)   |           |          | '00000000'::character varying
 p9              | character varying(8)   |           |          | '00000000'::character varying
 p10             | character varying(8)   |           |          | '00000000'::character varying
 p11             | character varying(8)   |           |          | '00000000'::character varying
 p12             | character varying(8)   |           |          | '00000000'::character varying
 p13             | character varying(8)   |           |          | '00000000'::character varying
 p14             | character varying(8)   |           |          | '00000000'::character varying
 p15             | character varying(8)   |           |          | '00000000'::character varying
 p16             | character varying(8)   |           |          | '00000000'::character varying
Indexes:
    "accounts_pkey" PRIMARY KEY, btree ("accountID")
Referenced by:
    TABLE "loonbetalingen" CONSTRAINT "account.accountID_fkey" FOREIGN KEY ("accountID") REFERENCES accounts("accountID")
    TABLE "lev_accounts" CONSTRAINT "accounts_accountID" FOREIGN KEY ("accountID") REFERENCES accounts("accountID")
    TABLE "klanten" CONSTRAINT "accounts_accountID_fkey" FOREIGN KEY ("accountID") REFERENCES accounts("accountID")
    TABLE "werknemers" CONSTRAINT "accounts_accountID_fkey" FOREIGN KEY ("accountID") REFERENCES accounts("accountID")
    TABLE "koper_accounts" CONSTRAINT "accounts_accountID_fkey" FOREIGN KEY ("accountID") REFERENCES accounts("accountID")
```

Tables params:

Table params_system for functional system data

	systemID [PK] integer	item character varying (30)	system_value integer	description character varying (30)	lock boolean	date character varying (10)
1	1	order_number	4	Serial order number	false	2024-07-31
2	2	receipt_number	2	Countersales serial number	true	2024-07-31
3	3	annual_consumption	0	0/1 even/odd year	false	2024-08-01

Table params_finance for financial purposes.

	financeID [PK] integer	item character varying	factor double precision	amount double precision	explanation character varying	date character varying (10)
1	1	vat_high	0.21	0	taxes on products	2024-07-31
2	2	vat_low	0.09	0	taxes on products	2024-07-31
3	3	profit_low	0.1	0	profit on sales	2024-07-31
4	4	profit _middle	0.2	0	profit on sales	2024-07-31
5	5	profit_high	0.3	0	profit on sales	2024-07-31
6	6	warehouse_margin	0.1	0	margin for loss and handling	2024-07-31
7	7	works_margin	0.1	0	margin for handling	2024-07-31
8	8	order_costs	0	260	costs per purchase order	2024-07-31
9	9	delivery_costs	0	6.45	delivery costs per order	2024-07-31

Table params_periods for paying periods of wages.

	periodID [PK] integer	working_period character varying (7)	working_hours_per_period integer	period_size character varying (10)	lock_processed boolean	date character varying (
1	1	2018-01	184	monthly	true	2024-08-04
2	2	2018-02	160	monthly	true	2024-07-25
3	3	2018-03	176	monthly	true	2024-07-25
4	4	2018-04	168	monthly	true	2024-07-25
5	5	2018-05	184	monthly	true	2024-08-04
6	6	2018-06	168	monthly	true	2024-07-25
7	7	2018-07	176	monthly	true	2024-08-04
8	8	2018-08	184	monthly	true	2024-08-04
9	9	2017-09	160	monthly	true	2024-08-04
10	10	2017-10	184	monthly	true	2024-07-25
11	11	2017-11	176	monthly	true	2024-07-25
12	12	2017-12	168	monthly	true	2024-07-25
13	13	2024-01	176	monthly	true	2024-07-26
14	14	2024-02	168	monthly	true	2024-07-26
15	15	2024-03	168	monthly	true	2024-07-26
16	16	2024-04	176	monthly	true	2024-07-26
17	17	2024-05	168	monthly	true	2024-07-26
18	18	2024-06	160	monthly	true	2024-07-26
19	19	2024-07	184	monthly	true	2024-07-26
20	20	2024-08	176	monthly	false	2024-07-26
21	21	2024-09	168	monthly	false	2024-07-26
22	22	2024-10	184	monthly	false	2024-07-26
23	23	2024-11	168	monthly	false	2024-07-26
24	24	2024-12	160	monthly	false	2024-07-26
25	25	2025-01	176	monthly	false	2024-07-26
26	26	2025-02	160	monthly	false	2024-07-26
27	27	2025-03	168	monthly	false	2024-07-26
28	28	2025-04	168	monthly	false	2024-07-26
29	29	2025-05	168	monthly	false	2024-07-26
30	30	2025-06	160	monthly	false	2024-07-26
31	31	2025-07	184	monthly	false	2024-07-26
32	32	2025-08	168	monthly	false	2024-07-26
33	33	2025-09	176	monthly	false	2024-07-26
34	34	2025-10	184	monthly	false	2024-07-26
35	35	2025-11	160	monthly	false	2024-07-26
36	36	2025-12	168	monthly	false	2024-07-26
37	37	2024-12	160	montly	false	2024-08-04

Table params_hours includes hourly tariffs for working hours and charging works via overhead factor.

	rateID [PK] integer	item character varying	hourly_tariff double precision	date character varying	overhead_factor double precision	wageID integer	travel_time double precision
1	1	uren_inhuur	31.34	2024-07-25	1.2	0	0
2	2	construktie	27.56	2024-07-25	2	4	4.593333333333333
3	3	montage	53.824	2024-07-25	2.9	8	6.1866666666666665
4	4	bfi	55.12	2024-08-06	3.1	20	9.186666666666666
5	5	voeding	46.349999999999994	2024-07-25	3	36	5.1499999999999995
6	6	bvl	63.553999999999995	2024-07-25	4.3	24	4.926666666666667
7	7	spoorleg	70.47600000000001	2024-07-25	4.2	28	5.593333333333334
8	8	spoorlas	79.92399999999999	2024-08-06	2.8	32	9.186666666666666
9	9	retourlas	54.095	2024-07-25	3.1	12	5.816666666666666
10	10	grondverzet	28.34	2024-07-25	1.2	0	4.56
11	11	telecom	54.845	2024-08-04	3.5	16	5.223333333333334
12	12	zagen	167.6945	2024-08-06	3.1	55	18.031666666666666
13	13	schaven	72.92999999999999	2024-08-04	3.4	58	0
14	14	steken	89.133	2024-07-25	3.3	61	0
15	15	boren	79.35	2024-07-25	3	64	0
16	16	frezen	189.33249999999998	2024-08-06	3.6	67	18.031666666666666
17	17	draaien_klein	108.946	2024-07-25	3.8	70	0
18	18	draaien_groot	131.62800000000001	2024-07-25	4.2	73	0
19	19	tappen	68.76799999999999	2024-07-25	2.8	76	0
20	20	nube_draaien	85.43599999999999	2024-08-06	7.2	79	9.186666666666666
21	21	nube_bewerken	269.418	2024-07-25	8.3	82	0
22	22	knippen	65.934	2024-07-25	3.3	85	0
23	23	kanten	99.876	2024-07-25	4.2	88	0
24	24	stansen	231.4432	2024-08-06	3.8	91	17.941333333333333
25	25	lassen_co2	84.16199999999999	2024-07-25	3.9	94	0
26	26	lassen_hand	76.477	2024-07-25	3.1	97	0
27	27	verpakken	36.909	2024-07-25	2.7	100	0
28	28	verzinken	226.0608	2024-08-06	3.5	103	17.941333333333333
29	29	moffelen	86.765	2024-07-25	3.7	106	0
30	30	schilderen	65.01	2024-07-25	3	109	0
31	31	spuiten	81.966	2024-07-25	3.8	112	0
32	32	ponsen	150.70719999999997	2024-08-06	3.6	115	17.941333333333333
33	33	persen	101.158	2024-07-25	3.7	118	0
34	34	gritstralen	65.12	2024-07-25	3.2	121	0
35	35	montage	56.72700000000001	2024-07-25	2.7	124	0

Table params_wages for deductions on wages:

	deductionID [PK] integer	item character varying (30)	factor_charging double precision	amount_charging integer	lower_limit integer	upper_limit integer	date character varying (10)
1	1	loonheffing1	0.3655	0	0	20142	2024-07-25
2	2	loonheffing2	0.4085	0	20142	33994	2024-07-25
3	3	hoonheffing3	0.4085	0	33994	68507	2024-07-25
4	4	loonheffing4	0.5195	0	68507	0	2024-07-25
5	5	heffingskorting alg1	0	2265	0	20142	2024-07-25
6	6	heffingskortingalg2	0.04683	0	20142	68507	2024-07-25
7	7	heffingskortingalg3	0	0	68507	0	2024-07-25
8	8	arbeidskorting1	0.01764	0	0	9468	2024-07-25
9	9	arbeidskorting2	0.28064	0	9468	20450	2024-07-25
10	10	arbeidskorting3	0	3249	20450	33112	2024-07-25
11	11	arbeidskorting4	0.036	0	33112	123362	2024-07-25
12	12	arbeidskorting5	0	0	123362	0	2024-07-25
13	13	pensioenfonds	0.2	0	13344	105075	2024-07-25
14	14	byztarief1	0.3655	0	0	6512	2024-07-25
15	15	byztarief2	0.3479	0	6512	10226	2024-07-25
16	16	byztarief3	0.0849	0	10226	18937	2024-07-25
17	17	byztarief4	0.3655	0	18937	20143	2024-07-25
18	18	byztarief5	0.4553	0	20143	22029	2024-07-25
19	19	byztarief6	0.4553	0	22029	33113	2024-07-25
20	20	byztarief7	0.4913	0	33113	33995	2024-07-25
21	21	byztarief8	0.4913	0	33995	34405	2024-07-25
22	22	byztarief9	0.4913	0	34405	68508	2024-07-25
23	23	byztarief10	0.5555	0	68508	133232	2024-07-25
24	24	byztarief11	0.5195	0	133232	0	2024-07-25
25	25	wg_WAO_IVA_WGA	0.0677	0	0	0	2024-08-07
26	26	wg_AWF	0.0285	0	0	0	2024-08-07
27	27	wg_ZVW	0.079	0	0	0	2024-08-07

Params_graphs for scaling and linecolors graphs from external works

	parID [PK] integer	item character varying	color_1 character varying (7)	color_2 character varying (7)	y_scale integer	prognosis integer	date character varying (10)
1	1	1. Costs total / budgeted costs	#FF0000	#2207fb	160000000	0	2024-08-01
2	2	2. Wages budgeted / realised	#43d76b	#0040ff	100000000	0	2024-08-01
3	3	3. Materials budgeted / realised	#00ffff	#b500ff	60000000	0	2024-08-01
4	4	4. Equipment budgeted / realised	#ffac00	#289780	20000000	0	2024-08-01
5	5	5. Hiring budgeted / realised	#ff4e00	#883cbf	30000000	0	2024-08-01
6	6	6. Services budgeted / realised'	#6c00ff	#454ab1	30000000	0	2024-08-01
7	7	7. Project costs budgeted / realised	#ffb500	#24b0a5	10000000	0	2024-08-01
8	8	8. Gross profit - prognosis / actual	#24b0a5	#561341	20000000	15000000	2024-08-01
9	9	9. Work in progress - Payed amount	#648121	#5bab51	160000000	0	2024-08-01
10	10	A. Revenue - prognosis / actual	#ff6c00	#2b793e	160000000	150000000	2024-08-01
11	11	B. Gross profit realised\n More/less work	#910823	#0a2aaf	30000000	0	2024-08-01

Table params_services for large equipment:

	servicesID [PK] integer	item character varying	hourly_tariff double precision	date character varying (10)	overhead_factor double precision
1	1	sleuvengraver	46.89	2024-07-25	1.2
2	2	persapparaat	36.35	2024-07-25	1.2
3	3	atlaskraan	52.34	2024-07-25	1.2
4	4	kraan_groot	112.56	2024-07-25	1.2
5	5	mainliner	214.34	2024-07-25	1.2
6	6	hormachine	232.54	2024-07-25	1.2
7	7	wagon	16.54	2024-07-25	1.2
8	8	locomotor	47.56	2024-07-25	1.2
9	9	locomotief	89.34	2024-07-25	1.2
10	10	montagewagen	88.14	2024-07-25	1.2
11	11	stormobiel	68.67	2024-07-25	1.2
12	12	robeltrein	193.45	2024-07-25	1.2

In this tables the variables are stored, which the program modules use to function with variable factors or values.

The parameter groups are:
a. System values. Functional parameters.
b. Payroll. Hourly tariffs, deductions of wages and paying periods
c. Financial. Charging values for taxes payments , increments on stock, works and so on.
d. Services. Charging values for large equipment
e. Graphs. Parameters for scaling and colors graphs of external works.

a. Parameters for order numbers and even-odd year determination for stock puposes.
   The parameter annual consumption)is for change even year in odd year, or
    reverse, so it's executed only one time.

b. Variables for payroll administration.
   Table Wages:
   This are the tax deduction rates with it's upper and lower limits, to charge the payments.
    Also the employer part of the deductions is determined.
   This rules are established by the government.
   Thurdermore the pension premium employee and employer is stored.
    Table Hours:
    The hourly wages of the employees are stored in table lonen.
    With the table lonen and the this parameters the wages are determined.
    Table Periods:
    These are the monthly periods for payments wages employees. Format yyyy-mm
    With the field working_period the working hours for that month are filled in, taking into account
     weekend and public holidays.
    With setting the lock the period is blocked for executing, when it's already executed.
    In this case only printing or lookup is possible.

c. Table financial.
   VAT taxes as stated by the government
   The profit parameter is determined by the company and is dependant on competitors in the
   market the rates are low, middle and high profits.
   Stock raises are costs on products by handling, storage costs, interest loss and obsolete
   products
   Stock raises by external works are for transportation and storage on the work.
   Ordercosts are delivering costs for online orders and administration and handling costs for other
   items.

d. Services
   For charging large equipment of external works.

e. Graphs
   The parameters forecast profit (begrote winst) en forecast turn-over (begrote omzet) are used
   for financial graphs.
   The parameters scaling is for de scaling, colors for linecolors of the graphs.

Table accounts:
Access control for employees to certain menus and menulines.
For detailed description see Accounts_and_access_control

Access external partners to ERP Pandora.

With this menuline the employees off suppliers or client companies gets access to the **ERP** system.
Only lookups are possible for their own company.

 Calculating working rates:
With this menuitem the rates towards the works are recalculated, for instance then wages has been
raised or overhead has changed (rate factor – tarieffactor Dutch).