

Przykłady SQL do raportów

Użyteczne konstrukcje i funkcje językowe SQL

```
--Formatuje datę
SELECT to_char(d.adddat, 'YYYY-MM-DD') FROM documents d;

-- Pobiera rok
select extract(YEAR from CURRENT_DATE);

-- Oblicza czas który upłynął od daty do daty (np. na realizacji zadania)
((extract(EPOCH FROM d.rlend_) - extract(EPOCH FROM d.rlstrt))/3600)::numeric(12,2) AS duration

-- Zamienia liczbę sekund na ciąg: H:M:S - np. 00:30:03
SELECT (1803 || 's')::interval

-- Formatuje kwotę z pól tekstowych np. z formularzy customowych
select cast(regexp_replace(regexp_replace('301 110,43',' ',''),',','.')) as numeric(12,2)) + 12.50;

-- Warunkowo koloruje pole
CASE WHEN p.pr_sta = 1 THEN '<div style="color: red">Rozpoczęte</div>' WHEN p.pr_sta = 2 THEN 'W trakcie realizacji' WHEN

-- Wybiera te rekordy których data jest w tym tygodniu
to_char(CURRENT_DATE, 'WW') = to_char (adddat, 'WW')

-- wybiera rekordy nie starsze niż miesiąc
AND dcr.adddat > CURRENT_DATE - interval '1 month'
```

Przykładowe użyteczne zapytania do bazy edokumenty

```
-- POBIERANIE DANYCH Z CECH
--
-- Przykład linkowania cech z dokumentu kastomowego o dctpid = 22
-- f18, f19, f20 to wartości pól tekstowe a f21 to lista JEDNOKROTNEGO wyboru
--
SELECT
doc.doc_id AS keyval,
'DOCUMENT'::text AS clsnam,
r.evdnum AS nr,
u.firnam || ' ' || u.lasnam AS imienazwisko,
CAST(doc.adddat AS date) AS datawniosku,
CAST(f18.data__ AS date) AS poczurlop,
CAST(f20.data__ AS date) AS konurlop,
CAST(COALESCE(f19.data__, '0') AS int) AS dniurlopu,
f21.ftopnm AS powod,
COALESCE(tops.dscrpt, '-') AS status
FROM documents doc
LEFT JOIN users u ON u.usr_id = doc.adduid
LEFT JOIN regofpapers r ON r.doc_id=doc.doc_id
LEFT JOIN features_text_view f18 ON doc.doc_id = f18.tbl_id AND f18.feaid = 18
LEFT JOIN features_text_view f19 ON doc.doc_id = f19.tbl_id AND f19.feaid = 19
LEFT JOIN features_text_view f20 ON doc.doc_id = f20.tbl_id AND f20.feaid = 20
LEFT JOIN features_opt_view f21 ON doc.doc_id = f21.tbl_id AND f21.feaid = 21
LEFT JOIN types_of_processes_states tops ON doc.tpstid = tops.tpstid
WHERE dctpid = 22 AND gostof IS NULL AND doc.is_del IS FALSE

--
```

```

-- Przykład sprawy z wartościami cech (tekstowe i opcje)
--
SELECT p.dscrpt, p.symbol, 'PROCESS'::text AS clsnam, prc_id AS keyval,
f1.data__ AS opinia, f2.ftopnm AS reklamacja, f3.data__ AS dzialanie_korygujace,
f4.data__ AS dzialanie_Klient, f5.data__ AS przyczyna
FROM processes_view p
LEFT JOIN features_text_view f1 ON p.prc_id = f1.tbl_id AND f1.feaid = 14
LEFT JOIN features_opt_view f2 ON p.prc_id = f2.tbl_id AND f2.feaid = 15
LEFT JOIN features_text_view f3 ON p.prc_id = f3.tbl_id AND f3.feaid = 16
LEFT JOIN features_text_view f4 ON p.prc_id = f4.tbl_id AND f4.feaid = 17
LEFT JOIN features_text_view f5 ON p.prc_id = f5.tbl_id AND f5.feaid = 18
WHERE p.prtpid = 1

---
--- Przykład czasu wykonania etapów procedury o ID 28 i 29
---
SELECT sd.ptstnm, avg(s.fixdat - s.actdat) AS avarage, (extract(epoch FROM avg(s.fixdat - s.actdat))/3600)::int AS avhours
FROM stages s
INNER JOIN stages_def sd USING(ptstid)
INNER JOIN procedures pr ON (pr.procid = s.procid OR s.procid = ANY (pr.pararr))
INNER JOIN documents d ON (d.procid = pr.procid OR d.procid = pr.rootpr)
WHERE d.is_del IS FALSE AND d.gostof IS NULL
AND s.is_fix = TRUE
AND s.actdat IS NOT NULL
AND sd.prtpid IN (28, 29)
AND sd.is_del IS FALSE
AND sd.ptsttp IN ('ACTIVITY')
GROUP BY sd.ptstnm, s.ptstid, sd.ptsttp
ORDER BY avarage DESC

--
-- Przykład pobrania cechy kontrahenta - listy WIELOKROTNEGO wyboru
-- konieczne jest użycie funkcji agregującej text_sum aby nie otrzymywać podwójnych rekordów
--
SELECT c.name_1, text_sum(f2.ftopnm)
FROM contacts c
LEFT JOIN features_opt_view f2 ON c.contid = f2.tbl_id AND f2.feaid = 20
WHERE contid = {CONTID}
GROUP BY c.name_1

--
-- Przykład linkowania cech zdarzeń
--
SELECT to_char(d.addat, 'YY-MM-DD') AS day,
rozmowy
(SELECT count(*) /10
FROM events_view e WHERE e.trmtyp = 'PHONECALL' AND emp_id IN (84,62) AND e.start_ >= d.addat::date - 7
AND e.start_ <= d.addat) AS rozmowy_handlowe,
spotkania
(SELECT count(*)
FROM events_view e WHERE e.trmtyp = 'MEETING' AND emp_id IN (84,62) AND e.start_ >= d.addat::date - 7
AND e.start_ <= d.addat) AS spotkania,
wartość pola feaid 98
f3.data__::int AS odwedok,
f4.ftopnm AS cecha4
FROM documents d
INNER JOIN features_text_view f3 ON d.doc_id = f3.tbl_id AND f3.feaid = 98
cecha z listy wyboru
INNER JOIN features_opt_view f4 ON d.doc_id = f4.tbl_id AND f4.ftopid = 119

```

```
WHERE d.is_del IS NOT true AND d.gostof IS NULL
```

```
--
```

```
-- Przykład listy spraw z cechami - tekstowymi i listami
```

```
--
```

```
SELECT
```

```
-- Wybieramy klucz główny i nazwę formularza do podłączenia
```

```
--(ustawić w polach typ i wartość raportu - aby otwierać obiekty)
```

```
p.prc_id as keyval, 'PROCESS':TEXT as clsnam,
```

```
-- opis sprawy i inne pola z tabeli lub jeszcze lepiej widoku processes_view
```

```
dscrpt,
```

```
-- liczba porządkowa
```

```
ROW_NUMBER() over (order by p.prc_id) AS lp,
```

```
-- klient nazwa krótka jeśli jest, jeśli nie to pełna
```

```
COALESCE(c.name_2, c.name_1) AS klient,
```

```
-- w zależności od terminu - kolorowanie
```

```
CASE WHEN fxterm > CURRENT_DATE THEN
```

```
'<div style="background-color: ' || fxterm || '; width: 100%; height: 100%">' || fxterm || '</div>'
```

```
ELSE '' || fxterm END AS fxterm,
```

```
f40.data__ AS moja_cecha_tekstowa,
```

```
f31.ftopnm AS moja_cecha_lista
```

```
FROM processes_view p
```

```
LEFT JOIN contacts c USING (contid)
```

```
LEFT JOIN features_text_view f40 ON f40.tbl_id = p.prc_id AND f40.feaid = 40
```

```
LEFT JOIN features_opt_view f31 ON f31.tbl_id = p.prc_id AND f31.feaid = 31
```

```
-- tylko z teczki o podanym dsexid (można sprawdzić na wyciągu z wykazu akt)
```

```
AND p.dsexid IN (646)
```

```
WHERE p.is_del IS FALSE
```

```
-- Wybiera symbol teczki z numeru sprawy oo formacie '2/03/08/UP/AW'
```

```
SELECT substring(symbol from '[0-9]*/[0-9]*/[0-9]*/([A-Z]*)') FROM processes;
```

```
-- Wybiera krótką nazwę klienta jeśli jest, a jeśli jest pusta to długą
```

```
SELECT COALESCE(c.name_2, c.name_1) FROM contacts c;
```

```
-- Wybiera dane do trendu - do wykresu
```

```
SELECT extract(month from rlstrt) as m,
```

```
sum((time__::numeric(12,2)/3600)::numeric(12,2)) AS sum
```

```
FROM rcp_cards_view
```

```
WHERE rlstrt IS NOT NULL AND is_fak = TRUE AND is_del = FALSE AND tpstid = 9
```

```
AND rlstrt + interval '1 year' >= CURRENT_DATE
```

```
GROUP BY extract(year from rlstrt),
```

```
extract(month from rlstrt)
```

```
ORDER BY extract(year from rlstrt), extract(month from rlstrt)
```

```
-- Formatuje status z obrazkiem czy zakończony
```

```
-- Pokazuje wiele osób na równoegłych etapach w obiegu faktury
```

```
SELECT 'DOCUMENT':text AS clsnam, d.doc_id AS keyval, d.doc_id, v.amount, v.vat__, v.number, reg.evdatum,
```

```
regexp_replace(d.dscrpt, 'Od: [0-9a-zA-Ząłóśńżźąęśóćńłżż\";\.\.)(,)*$', '') AS dscrpt, d.trgtxt, v.payed_, v.seldat::
```

```
CASE WHEN tps.status IN ('FINAL', 'CANCEL') THEN '<img src=../../framework/img/MessageBox/checked.png width=18 title=Statu
```

```
v.paytrm::date AS paytrm,
```

```
COALESCE(name_1, name_2) AS contrah,
```

```
ftv.ftopnm AS rodzaj,
```

```

tps.dscrpt AS status,
tps.tpstid,
toa.code__,
(SELECT text_sum(osoby) FROM (
SELECT DISTINCT (firnam||' '||lasnam) AS osoby
FROM stages s
INNER JOIN procedures pr2 USING(procid)
LEFT JOIN orgtree_view o3 ON o3.orunid = any(s.orgarr)
WHERE
((s.is_act IS TRUE AND s.is_fix IS FALSE)
OR (s.ptsttp = 'END' AND s.is_fix IS TRUE))
AND (s.ptsttp != 'SUBPROCESS') AND (pr2.rootpr = d.procid)
) x) AS osoby,
d.procid,
pr.prtprnm
FROM documents d
INNER JOIN vatnote v USING(doc_id)
INNER JOIN contacts c ON (c.contid = v.frctid)
LEFT JOIN regofvatnotes reg USING (doc_id)
LEFT JOIN features_opt_view ftv ON d.doc_id = ftv.tbl_id AND ftv.feaid = 2
LEFT JOIN types_of_accountants_doc toa USING(accdid)
LEFT JOIN types_of_processes_states AS tps ON d.tpstid = tps.tpstid
LEFT JOIN procedures pr USING(procid)

WHERE d.gostof IS NULL AND d.copyof IS NULL AND d.state_ = 2 AND d.is_del IS FALSE
AND d.addat BETWEEN '{DATE_FROM}'::date AND '{DATE_TO}'::date
AND {FILTER_STRING}
ORDER BY d.doc_id

```

Zapytania do filtrów

```

-- Statusy dokumentów o dctpid = 2 (Faktury)
SELECT tpstid, dscrpt FROM types_of_processes_states
WHERE clsnam = 'DOCUMENT|2' ORDER BY state_

-- Statusy spraw (ogólne - nieprzypisanego do żadnego RWA)
SELECT tpstid, dscrpt FROM types_of_processes_states
WHERE clsnam = 'PROCESS' ORDER BY state_

-- Osoby do których użytkownik ma prawo
SELECT ov.usr_id, ov.usrnam FROM orgtree_view ov where
chkUsrOrgAcc({LOGGED_USR_ID}, ov.orunid) IS TRUE

-- Wartości cechy osób do których uzytkownik ma prawo
SELECT ftopid, ftopnm
FROM
features_options
INNER JOIN features_options_def USING(fodfid)
LEFT JOIN users u ON u.initls = ftopnm
LEFT JOIN orgtree_view ov ON ov.usr_id = u.usr_id
WHERE feaid = 91
AND (CASE WHEN (SELECT count(*) > 0 FROM users_link_group WHERE grp_id = 29 AND usr_id = {LOGGED_USR_ID}) THEN 1 = 1 ELSE
ORDER BY ftopnm

-- Wartości cechy tekstowej o feaid 83
SELECT DISTINCT data__ AS value, data__ AS caption
FROM

```

```
features_text_view  
WHERE featid = 83  
ORDER BY data__
```