

SQL BOOTCAMP ODEV2

BENSU İMAMOĞLU

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1. SORU

ilk olarak **AND** operatörünü kullanarak yaptım ve hata almadım. Ancak **COALESCE** kullanmak istediğimde hepsini **text** veri türünde istedi. 3. Fotoğrafta texte çevirerek bir sorgu yazdım ve başarılı sonuç aldım.

```
1 SELECT COUNT(*)
2 FROM Invoice
3 WHERE
4     invoice_id IS NULL
5     AND customer_id IS NULL
6     AND invoice_date IS NULL
7     AND billing_address IS NULL
8     AND billing_city IS NULL
9     AND billing_state IS NULL
10    AND billing_country IS NULL
11    AND billingpostal_code IS NULL
12    AND total IS NULL;
13 --total rows is 1
14
15 --ayrıca COALESCE kullandığımda hepsini aynı veri tipine çevirmemi istedi.
16 SELECT COUNT(*)
17 FROM Invoice
18 WHERE COALESCE(invoice_id, customer_id, invoice_date, billing_address, billing_city, billing_state, billing_country, billingpostal_code, total) IS NULL;
```

count
0

```
14
15
16 --ayrıca COALESCE kullandığımda hepsini aynı veri tipine çevirmemi istedi.
17 SELECT COUNT(*)
18 FROM Invoice
19 WHERE COALESCE(invoice_id, customer_id, invoice_date, billing_address, billing_city, billing_state, billing_country, billingpostal_code, total) IS NULL;
```

ERROR: COALESCE tipleri integer ve timestamp without time zone bir araya gelemmez
LINE 3: WHERE COALESCE(invoice_id, customer_id, invoice_date, billing...

HATA: COALESCE tipleri integer ve timestamp without time zone bir araya gelemmez
SQL state: 42884
Character: 71

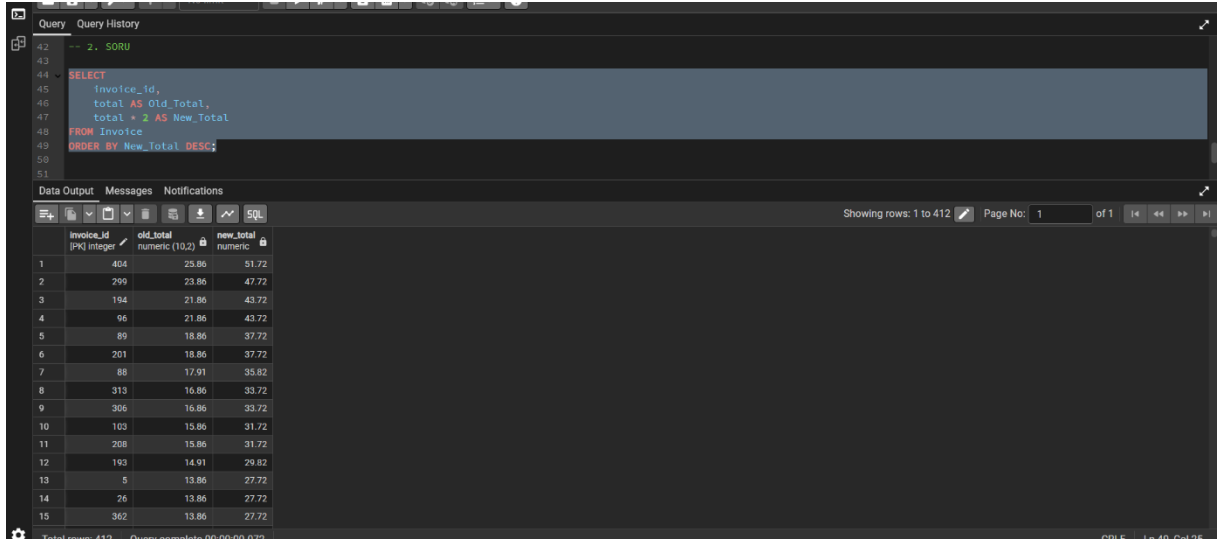
```
14
15
16 --ayrıca COALESCE kullandığımda hepsini aynı veri tipine çevirmemi istedi.
17 SELECT COUNT(*)
18 FROM Invoice
19 WHERE COALESCE(invoice_id, customer_id, invoice_date, billing_address, billing_city, billing_state, billing_country, billingpostal_code, total) IS NULL;
```

```
21 -- ben de şu şekilde yazdım
22
23 SELECT COUNT(*)
24 FROM Invoice
25 WHERE COALESCE(
26     invoice_id::TEXT,
27     customer_id::TEXT,
28     invoice_date::TEXT,
29     billing_address,
30     billing_city,
31     billing_state,
32     billing_country,
33     billingpostal_code,
34     total::TEXT
35 ) IS NULL;
```

count
0

2. SORU

AS komutu kullanarak isim koydum ve yeni bir column ekledim.



The screenshot shows a PostgreSQL query editor with a query window and a data output window. The query window contains the following SQL code:

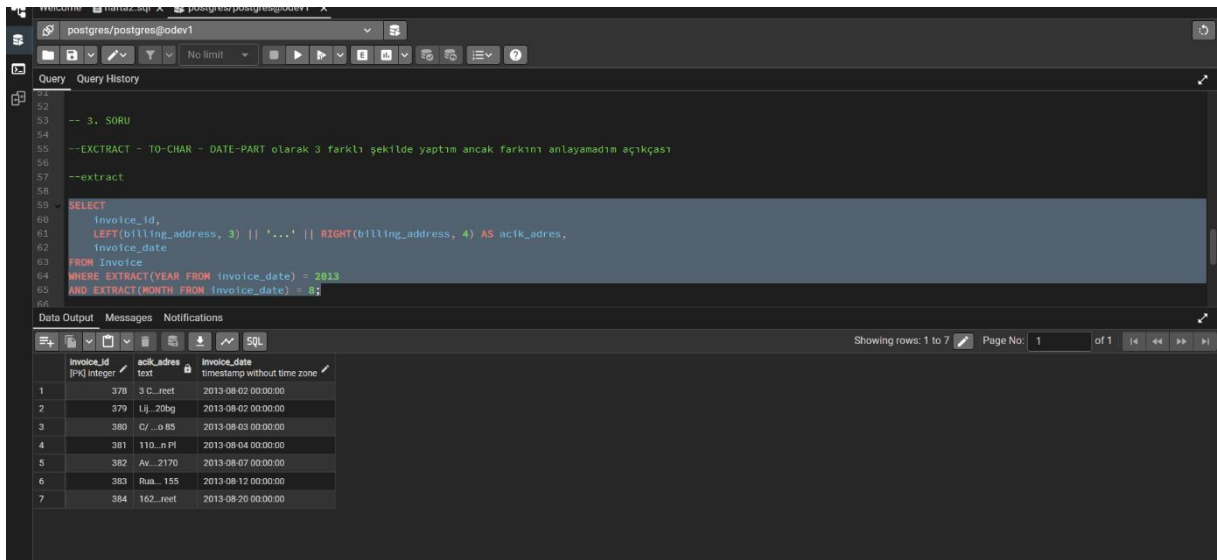
```
-- 2. SORU
SELECT
    invoice_id,
    total AS Old_Total,
    total * 2 AS New_Total
FROM Invoice
ORDER BY New_Total DESC;
```

The data output window shows the results of the query, displaying 15 rows. The columns are invoice_id, old_total, and new_total. The data is as follows:

invoice_id	old_total	new_total
404	25.86	51.72
299	23.86	47.72
194	21.86	43.72
96	21.86	43.72
89	18.86	37.72
201	18.86	37.72
88	17.91	35.82
313	16.86	33.72
306	16.86	33.72
103	15.86	31.72
208	15.86	31.72
193	14.91	29.82
5	13.86	27.72
26	13.86	27.72
362	13.86	27.72

3. SORU

EXTRACT , TO-CHAR ve DATE-PART olarak 3 şekilde denedim ve yazımlarında bazı farklılıklar keşfettim. İlk yazdığımdaya anlayamadım ama daha sonra denemeler yaparak kavradım. Ancak hangisini kullanmam gerektiğini bilemedim.



The screenshot shows a PostgreSQL query editor with a query window and a data output window. The query window contains the following SQL code:

```
-- 3. SORU
--EXTRACT - TO-CHAR - DATE-PART olarak 3 farklı şekilde yaptım ancak farkını anlayamadım açıkçası
--extract
SELECT
    invoice_id,
    LEFT(billing_address, 3) || '...' || RIGHT(billing_address, 4) AS acik_adres,
    invoice_date
FROM Invoice
WHERE EXTRACT(YEAR FROM invoice_date) = 2013
AND EXTRACT(MONTH FROM invoice_date) = 8;
```

The data output window shows the results of the query, displaying 7 rows. The columns are invoice_id, acik_adres, and invoice_date. The data is as follows:

invoice_id	acik_adres	invoice_date
378	3 C...reet	2013-08-02 00:00:00
379	1ij...20bg	2013-08-02 00:00:00
380	C/...o 85	2013-08-03 00:00:00
381	110...n Pl	2013-08-04 00:00:00
382	Av...2170	2013-08-07 00:00:00
383	Rua...155	2013-08-12 00:00:00
384	162...reet	2013-08-20 00:00:00

```
79
80
81 -- to-char
82
83 SELECT
84     invoice_id,
85     LEFT(billing_address, 3) || '...' || RIGHT(billing_address, 4) AS acik_adres,
86     invoice_date
87 FROM Invoice
88 WHERE TO_CHAR(invoice_date, 'YYYY-MM') = '2013-08';
89
90
```

Data Output Messages Notifications

Showing rows: 1 to 7 Page No: 1

	invoice_id [PK] integer	acik_adres text	invoice_date timestamp without time zone
1	378	3 C...reet	2013-08-02 00:00:00
2	379	Lj...20bg	2013-08-02 00:00:00
3	380	C/...o 85	2013-08-03 00:00:00
4	381	110...n Pl	2013-08-04 00:00:00
5	382	Av...2170	2013-08-07 00:00:00
6	383	Rua... 155	2013-08-12 00:00:00
7	384	162...reet	2013-08-20 00:00:00

Welcome hafta2.sql x postgres/postgres@odev1 x

postgres/postgres@odev1

No limit

Query Query History

```
64 WHERE EXTRACT(YEAR FROM invoice_date) = 2013
65 AND EXTRACT(MONTH FROM invoice_date) = 8;
66
67
68
69 -- date-part
70
71 SELECT
72     invoice_id,
73     LEFT(billing_address, 3) || '...' || RIGHT(billing_address, 4) AS acik_adres,
74     invoice_date
75 FROM Invoice
76 WHERE DATE_PART('year', invoice_date) = 2013
77 AND DATE_PART('month', invoice_date) = 8;
78
```

Data Output Messages Notifications

Showing rows: 1 to 7 Page No: 1 of 1

	invoice_id [PK] integer	acik_adres text	invoice_date timestamp without time zone
1	378	3 C...reet	2013-08-02 00:00:00
2	379	Lj...20bg	2013-08-02 00:00:00
3	380	C/...o 85	2013-08-03 00:00:00
4	381	110...n Pl	2013-08-04 00:00:00
5	382	Av...2170	2013-08-07 00:00:00
6	383	Rua... 155	2013-08-12 00:00:00
7	384	162...reet	2013-08-20 00:00:00