

«به نام خدا»

## تکلیف سوم DB1 - مرضیه علیدادی - 9631983

A1)

```
1 select * from q1
```



Data Output Notifications Messages Explain Scratch Pad

	productname character varying (50)	productnumber character varying (25)	productcategory character varying (50)	productsubcategory character varying (50)	transactionid integer	referenceorderid integer	referenceorderid integer	transactiondate timestamp without time zone	transactiontype character (1)	quantity integer	actualcost numeric
1	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100159	53454	10	2013-07-31 00:00:00	S	8	72
2	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100160	53454	34	2013-07-31 00:00:00	S	2	4.77
3	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100299	53458	40	2013-07-31 00:00:00	S	9	72
4	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100300	53458	4	2013-07-31 00:00:00	S	12	4.77
5	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100348	53459	37	2013-07-31 00:00:00	S	2	72
6	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100349	53459	15	2013-07-31 00:00:00	S	6	4.77
7	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100423	53460	35	2013-07-31 00:00:00	S	18	72
8	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100424	53460	5	2013-07-31 00:00:00	S	6	4.77
9	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100517	53465	12	2013-07-31 00:00:00	S	11	72
10	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100518	53465	7	2013-07-31 00:00:00	S	14	4.77
11	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100571	53467	14	2013-07-31 00:00:00	S	5	72
12	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100572	53467	11	2013-07-31 00:00:00	S	3	4.77
13	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100594	53468	2	2013-07-31 00:00:00	S	3	72
14	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100595	53468	31	2013-07-31 00:00:00	S	7	4.77
15	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100742	53472	31	2013-07-31 00:00:00	S	19	72
16	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100743	53472	46	2013-07-31 00:00:00	S	13	4.77
17	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100830	53475	38	2013-07-31 00:00:00	S	28	72
18	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100831	53475	20	2013-07-31 00:00:00	S	7	4.77
19	Hitch Rack - 4-Bike	RA-H123	Accessories	Bike Racks	100955	53480	37	2013-07-31 00:00:00	S	2	72
20	Bike Wash - Dissolver	CL-9009	Accessories	Cleaners	100956	53480	27	2013-07-31 00:00:00	S	2	4.77

A3)

```
1 select P.productID, salesOrderID
2 from production.product as P left outer join sales.salesOrderDetail as S
3   on p.productID = S.productID
```

Notifications Messages Explain Scratch Pad Data Output

	 productid integer	 salesorderid integer
1	776	43659
2	777	43659
3	778	43659
4	771	43659
5	772	43659
6	773	43659
7	774	43659
8	714	43659
9	716	43659
10	709	43659
11	712	43659
12	711	43659
13	762	43660
14	758	43660
15	745	43661
16	743	43661
17	747	43661
18	712	43661
19	715	43661
20	742	43661

A4)

```
1 select P.productID, salesOrderID
2 from production.product as P left outer join sales.salesOrderDetail as S
3     on p.productID = S.productID
4 where salesOrderID is null
```

	productid integer	salesorderid integer
1	497	[null]
2	452	[null]
3	496	[null]
4	455	[null]
5	384	[null]
6	399	[null]
7	437	[null]
8	518	[null]
9	397	[null]
10	486	[null]
11	330	[null]
12	847	[null]
13	359	[null]
14	405	[null]
15	379	[null]
16	373	[null]
17	414	[null]
18	449	[null]
19	382	[null]

A5)

برداشت من از صورت سوال، این بود که باید تمام ردیف های دو جدول را در صورت مطابقت، در خروجی بیاورم. به علاوه، برای جدول SalesOrderHeader ، تمام ردیف هایش را حتی اگر در جدول دیگر نظیرشان نباشد، در خروجی بیاورم.

<pre>1 select S.salespersonid, P.salesYTD , S.salesOrderID 2 from sales.salesPerson as P right outer join sales.SalesOrderHeader as S 3 on P.BusinessEntityID = S.salespersonid</pre>				
	salespersonid integer	salesytd numeric	salesorderid integer	
1	279	2315185.611	43659	
2	279	2315185.611	43660	
3	282	2604540.7172	43661	
4	282	2604540.7172	43662	
5	276	4251368.5497	43663	
6	280	1352577.1325	43664	
7	283	1573012.9383	43665	
8	276	4251368.5497	43666	
9	277	3189418.3662	43667	
10	282	2604540.7172	43668	
11	283	1573012.9383	43669	
12	275	3763178.1787	43670	
13	283	1573012.9383	43671	
14	282	2604540.7172	43672	
15	275	3763178.1787	43673	
16	282	2604540.7172	43674	
17	277	3189418.3662	43675	
18	275	3763178.1787	43676	
19	278	1453719.4653	43677	
20	281	2458535.6169	43678	
21	278	1453719.4653	43679	
22	281	2458535.6169	43680	
23	279	2315185.611	43681	

A6)

```

1 select S.salespersonid, P.salesYTD , S.salesOrderID , R.firstName
2 from sales.salesPerson as P right outer join sales.SalesOrderHeader as S
3     on P.BusinessEntityID = S.salespersonid
4     left outer join HumanResources.Employee as E
5     on (P.BusinessEntityID = E.BusinessEntityID)
6     left outer join person.person as R
7     on (E.BusinessEntityID = R.BusinessEntityID)
8
9

```

Notifications [Messages](#) Explain Scratch Pad

Successfully run. Total query runtime: 165 msec.  
31465 rows affected.

	salespersonid integer	salesytd numeric	salesorderid integer	firstname character varying (50)
1	279	2315185.611	43659	[null]
2	279	2315185.611	43660	[null]
3	282	2604540.7172	43661	[null]
4	282	2604540.7172	43662	[null]
5	276	4251368.5497	43663	[null]
6	280	1352577.1325	43664	[null]
7	283	1573012.9383	43665	[null]
8	276	4251368.5497	43666	[null]
9	277	3189418.3662	43667	[null]
10	282	2604540.7172	43668	[null]
11	283	1573012.9383	43669	[null]
12	275	3763178.1787	43670	[null]
13	283	1573012.9383	43671	[null]
14	282	2604540.7172	43672	[null]
15	275	3763178.1787	43673	[null]
16	282	2604540.7172	43674	[null]
17	277	3189418.3662	43675	[null]
18	275	3763178.1787	43676	[null]
19	278	1453719.4653	43677	[null]
20	281	2458535.6169	43678	[null]
21	278	1453719.4653	43679	[null]
22	281	2458535.6169	43680	[null]
23	279	2315185.611	43681	[null]
24	275	3763178.1787	43682	[null]






A7)

```

1 select T1.salesOrderID, T2.CurrencyRateID, T2.AverageRate, T4.ShipBase
2 from (sales.salesOrderHeader as T1 left outer join sales.CurrencyRate as T2
3      on (T1.currencyRateID = T2.currencyRateID))
4      full outer join
5      (sales.salesOrderHeader as T3 left outer join purchasing.ShipMethod T4
6      on (T3.shipMethodID = T4.shipMethodID))
7      on T1.salesOrderID = T3.salesOrderID

```

Notifications Messages Explain Scratch Pad Data Output

	 salesorderid integer	 currencyrateid integer	 averagerate numeric	 shipbase numeric	
1	43659	[null]	[null]	8.99	
2	43660	[null]	[null]	8.99	
3	43661	4	1.4641	8.99	
4	43662	4	1.4641	8.99	
5	43663	[null]	[null]	8.99	
6	43664	[null]	[null]	8.99	
7	43665	[null]	[null]	8.99	
8	43666	[null]	[null]	8.99	
9	43667	[null]	[null]	8.99	
10	43668	4	1.4641	8.99	
11	43669	[null]	[null]	8.99	
12	43670	[null]	[null]	8.99	
13	43671	[null]	[null]	8.99	
14	43672	4	1.4641	8.99	
15	43673	[null]	[null]	8.99	
16	43674	4	1.4641	8.99	
17	43675	[null]	[null]	8.99	

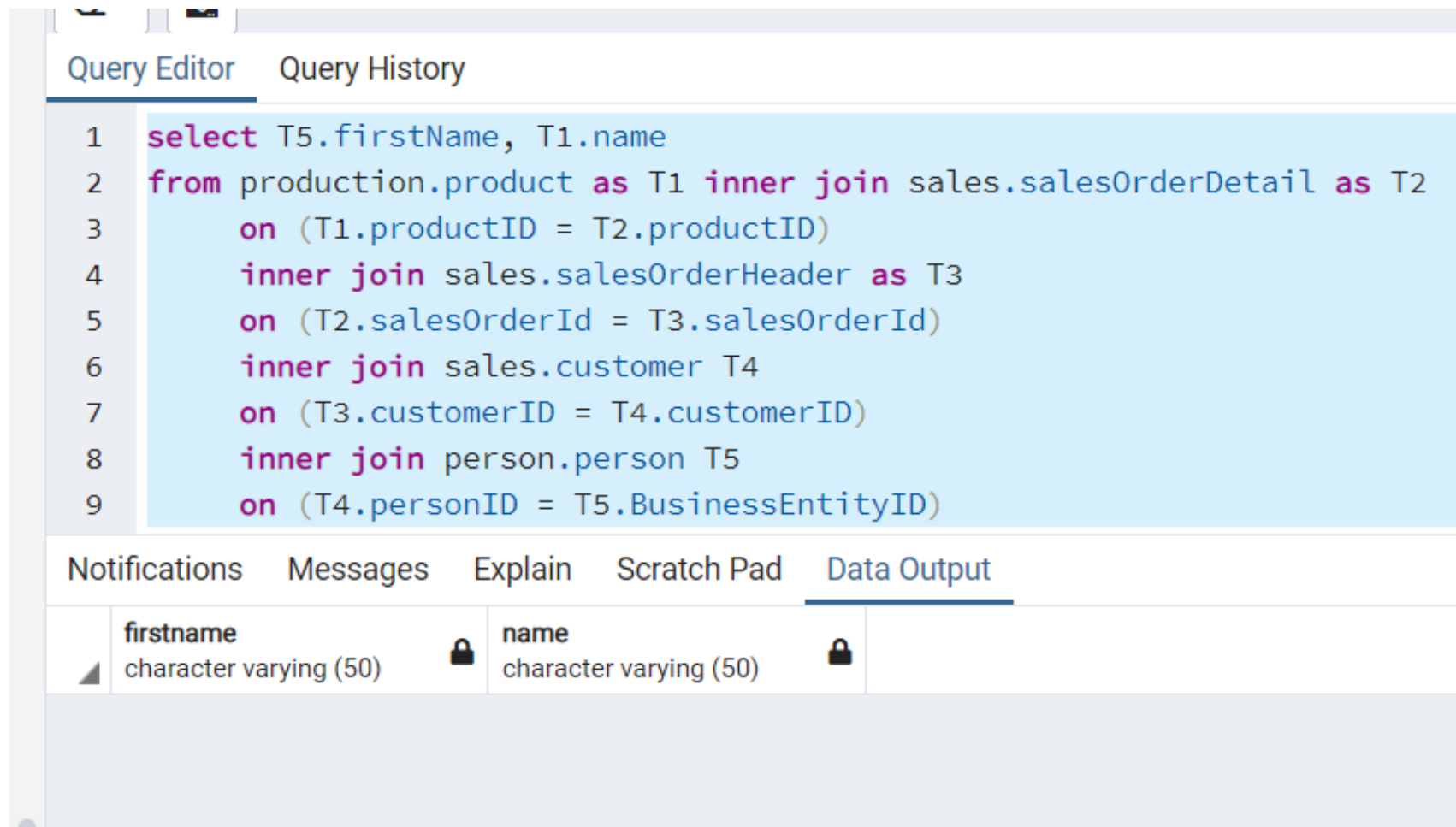
A8)

برداشت من از این سوال این بود که باید تمام ردیف های دو جدول، در خروجی آورده شوند؛ حتی در صورت عدم تطابق.

<pre>1 select T4.BusinessEntityID, T1.productID 2 from production.product as T1 full outer join sales.salesOrderDetail T2 3   on T1.productID = T2.productID 4   full outer join sales.salesOrderHeader as T3 5   on (T2.salesOrderID = T3.salesOrderID) 6   full outer join sales.salesPerson as T4 7   on (T3.salesPersonID = T4.BusinessEntityID) 8 9</pre>		businessentityid integer	productid integer
1		279	776
2		279	777
3		279	778
4		279	771
5		279	772
6		279	773
7		279	774
8		279	714
9		279	716
10		279	709
11		279	712
12		279	711
13		279	762
14		279	758
15		282	745
16		282	743
17		282	747
18		282	712
19		282	715
20		282	742
21		282	775
22		282	778
23		282	711
24		282	741

A9)

چون جدول person.person خالی است و رکوردی ندارد، نتیجه خالی می شود.



The screenshot shows a SQL Query Editor window with two tabs: "Query Editor" and "Query History". The "Query Editor" tab is active, displaying a SQL query. Below the query editor, there are four tabs: "Notifications", "Messages", "Explain", and "Data Output". The "Data Output" tab is active, showing the results of the query. The query is as follows:

```
1 select T5.firstName, T1.name
2 from production.product as T1 inner join sales.salesOrderDetail as T2
3   on (T1.productID = T2.productID)
4   inner join sales.salesOrderHeader as T3
5   on (T2.salesOrderId = T3.salesOrderId)
6   inner join sales.customer T4
7   on (T3.customerID = T4.customerID)
8   inner join person.person T5
9   on (T4.personID = T5.BusinessEntityID)
```

The "Data Output" tab shows the following columns:

firstname	name
character varying (50)	character varying (50)



A10)

بزرگ ترین جدول از نظر تعداد رکورد، جدول sales.salesOrderDetail است:

```
1 SELECT nspname as schemaName, relname as relationName, reltuples as recordsNubmer
2 FROM pg_class as C
3 LEFT JOIN pg_namespace N ON (N.oid = C.relnamespace)
4 WHERE nspname NOT IN ('pg_catalog', 'information_schema') AND relkind='r'
5 ORDER BY reltuples DESC;
```

	schemaname name	relationname name	recordsnubmer real
1	sales	salesorderdetail	121317
2	production	transactionhistory	113443
3	production	transactionhistoryarchive	89253
4	production	workorder	72591
5	production	workorderrouting	67131
6	sales	salesorderheader	31465
7	sales	salesorderheadersalesreason	27647
8	sales	customer	19820
9	person	address	19614
10	sales	creditcard	19118
11	sales	personcreditcard	19118
12	sales	currencyrate	13532
13	purchasing	purchaseorderdetail	8845
14	purchasing	purchaseorderheader	4012
15	production	billofmaterials	2679
16	production	productinventory	1069
17	production	productmodelproductdescriptionculture	762
18	sales	specialofferproduct	538
19	production	productproductphoto	504
20	production	product	504
21	purchasing	productvendor	460
22	production	productlistpricehistory	395
23	production	productcosthistory	395
24	humanresources	employeeepayhistory	316

Notifications Messages Explain Scratch Pad

A11)

هیچ index ای روی فیلد های این جدول وجود ندارد.

Query Editor    Query History

1    **select** indexname, indexdef

2    **from** pg\_indexes

3    **where** tablename = 'salesOrderDetail'

Notifications    Messages    Explain    Scratch Pad    Data Output

	indexname name		indexdef text	
--	-------------------	--	------------------	--

A12)

Query Editor

Query History

1

select \*

2

from sales.salesOrderDetail

3

where unitprice = 153.149

Notifications

Messages

Explain

Scratch Pad



Data Output

	salesorderid [PK] integer	salesorderdetailid [PK] integer	carriertrackingnumber character varying (25)	orderqty smallint	productid integer	specialofferid integer	unitprice numeric	unitpricediscount numeric	rowguid uuid	modifieddate timestamp without time zone
1	51124	36654	5EEF-4271-BB	14	917	2	153.149	0.02	a395449c-cc5e-4e1...	2013-05-30 00:00:00
2	51160	37552	3F3F-4135-B0	12	917	2	153.149	0.02	8d1ceff7-bb14-4dae...	2013-05-30 00:00:00
3	51822	41728	EEEE-45C1-87	13	917	2	153.149	0.02	21ed9349-73f2-4c4...	2013-06-30 00:00:00
4	53518	48388	5712-444B-BC	11	944	2	153.149	0.02	3b4efec2-b281-4eaf...	2013-07-31 00:00:00
5	53518	48394	5712-444B-BC	11	917	2	153.149	0.02	fb995691-cb83-447...	2013-07-31 00:00:00
6	53573	49706	F674-4899-B9	11	917	2	153.149	0.02	1167c9ba-52a0-493...	2013-07-31 00:00:00

P12)

```
1 explain select *
2 from sales.salesOrderDetail
3 where unitprice = 153.149
```

Notifications Messages Explain Scratch Pad Data Output

	<b>QUERY PLAN</b> text 
1	Seq Scan on salesorderdetail (cost=0.00..2955.46 rows=76 width=64)
2	Filter: (unitprice = 153.149)

A13)

Query Editor

Query History

```
1 select *
2 from sales.salesOrderDetail
3 where unitprice < 153.149
```











Notifications

Messages

Explain

Scratch Pad

Data Output

	 salesorderid [PK] integer	 salesorderdetailid [PK] integer	 carriertrackingnumber character varying (25)	 orderqty smallint	 productid integer	 specialofferid integer	 unitprice numeric	 unitpricediscount numeric	 rowguid uuid	 modifieddate timestamp without time zone
1	43659	8	4911-403C-98	3	714	1	28.8404	0	e9d54907-e...	2011-05-31 00:00:00
2	43659	9	4911-403C-98	1	716	1	28.8404	0	aa542630-b...	2011-05-31 00:00:00
3	43659	10	4911-403C-98	6	709	1	5.7	0	ac769034-3...	2011-05-31 00:00:00
4	43659	11	4911-403C-98	2	712	1	5.1865	0	06a66921-6...	2011-05-31 00:00:00
5	43659	12	4911-403C-98	4	711	1	20.1865	0	0e371ee3-2...	2011-05-31 00:00:00
6	43661	18	4E0A-4F89-AE	4	712	1	5.1865	0	f0f410b6-bc...	2011-05-31 00:00:00
7	43661	19	4E0A-4F89-AE	4	715	1	28.8404	0	ae4cda7d-9...	2011-05-31 00:00:00
8	43661	23	4E0A-4F89-AE	2	711	1	20.1865	0	935a70b5-3...	2011-05-31 00:00:00
9	43661	27	4E0A-4F89-AE	2	716	1	28.8404	0	d87d5edb-b...	2011-05-31 00:00:00
10	43661	29	4E0A-4F89-AE	5	708	1	20.1865	0	6c0d0601-7...	2011-05-31 00:00:00
11	43664	55	2F44-4BA1-BB	1	714	1	28.8404	0	076636af-a...	2011-05-31 00:00:00
12	43664	56	2F44-4BA1-BB	1	716	1	28.8404	0	c77b6559-1...	2011-05-31 00:00:00
13	43665	61	19F0-4638-8E	2	711	1	20.1865	0	d74427b2-2...	2011-05-31 00:00:00
14	43665	63	19F0-4638-8E	1	707	1	20.1865	0	e4a00fc2-6e...	2011-05-31 00:00:00
15	43665	64	19F0-4638-8E	2	715	1	28.8404	0	3cfb91f3-98...	2011-05-31 00:00:00
16	43665	66	19F0-4638-8E	2	712	1	5.1865	0	9342c497-f...	2011-05-31 00:00:00
17	43665	69	19F0-4638-8E	6	709	1	5.7	0	4a399178-c...	2011-05-31 00:00:00
18	43667	77	4DFB-4B10-A6	3	710	1	5.7	0	a3f2749d-5...	2011-05-31 00:00:00
19	43668	85	365D-4C9A-BE	6	715	1	28.8404	0	ec1a080e-1...	2011-05-31 00:00:00
20	43668	87	365D-4C9A-BE	2	707	1	20.1865	0	c0517f7a-8...	2011-05-31 00:00:00

P13)

Query Editor

Query History

1

explain select \*

2

from sales.salesOrderDetail

3

where unitprice < 153.149

Notifications

Messages

Explain

Scratch Pad

Data Output

QUERY PLAN

text

1

Seq Scan on salesorderdetail (cost=0.00..2955.46 rows=70179 width=64)

2

Filter: (unitprice < 153.149)

A14)

Query Editor

Query History

1

select \*

2

from sales.salesOrderDetail

3

where unitprice > 153.149

Notifications

Messages

Explain

Scratch Pad

Data Output

	salesorderid [PK] integer	salesorderdetailid [PK] integer	carriertrackingnumber character varying (25)	orderqty smallint	productid integer	specialofferid integer	unitprice numeric	unitpricediscount numeric	rowguid uuid	modifieddate timestamp without time zone
1	43659	1	4911-403C-98	1	776	1	2024.994	0	b207c96d-d...	2011-05-31 00:00:00
2	43659	2	4911-403C-98	3	777	1	2024.994	0	7abb600d-1...	2011-05-31 00:00:00
3	43659	3	4911-403C-98	1	778	1	2024.994	0	475cf8c6-49...	2011-05-31 00:00:00
4	43659	4	4911-403C-98	1	771	1	2039.994	0	04c4de91-5...	2011-05-31 00:00:00
5	43659	5	4911-403C-98	1	772	1	2039.994	0	5a74c7d2-e...	2011-05-31 00:00:00
6	43659	6	4911-403C-98	2	773	1	2039.994	0	ce472532-a...	2011-05-31 00:00:00
7	43659	7	4911-403C-98	1	774	1	2039.994	0	80667840-f...	2011-05-31 00:00:00
8	43660	13	6431-4D57-83	1	762	1	419.4589	0	419a1302-a...	2011-05-31 00:00:00
9	43660	14	6431-4D57-83	1	758	1	874.794	0	5d0b2b03-1...	2011-05-31 00:00:00
10	43661	15	4E0A-4F89-AE	1	745	1	809.76	0	ede1759e-6...	2011-05-31 00:00:00
11	43661	16	4E0A-4F89-AE	1	743	1	714.7043	0	fe10bf09-d4...	2011-05-31 00:00:00
12	43661	17	4E0A-4F89-AE	2	747	1	714.7043	0	b136852e-2...	2011-05-31 00:00:00
13	43661	20	4E0A-4F89-AE	2	742	1	722.5949	0	054a9d3b-a...	2011-05-31 00:00:00
14	43661	21	4E0A-4F89-AE	3	775	1	2024.994	0	8c342a15-8...	2011-05-31 00:00:00
15	43661	22	4E0A-4F89-AE	2	778	1	2024.994	0	b2760b75-3...	2011-05-31 00:00:00
16	43661	24	4E0A-4F89-AE	2	741	1	818.7	0	2f911593-e3...	2011-05-31 00:00:00
17	43661	25	4E0A-4F89-AE	4	776	1	2024.994	0	e8e15b60-3...	2011-05-31 00:00:00
18	43661	26	4E0A-4F89-AE	2	773	1	2039.994	0	4373070f-4e...	2011-05-31 00:00:00
19	43661	28	4E0A-4F89-AE	2	777	1	2024.994	0	c5762004-d...	2011-05-31 00:00:00
20	43662	30	2E53-4802-85	3	764	1	419.4589	0	2dfd4d76-e0...	2011-05-31 00:00:00


P14)

adventureworks/postgres@PostgreSQL 13

Query Editor   Query History

```
1 explain select *
2 from sales.salesOrderDetail
3 where unitprice > 153.149
```

Notifications   Messages   Explain   Scratch Pad   Data Output

	QUERY PLAN	
	text	
1	Seq Scan on salesorderdetail (cost=0.00..2955.46 rows=51062 width=64)	
2	Filter: (unitprice > 153.149)	



- index ای که روی فیلد unitPrice ایجاد شد:

```
1 create index index_salesOrderDetail_unitPrice  
2 on sales.salesOrderDetail (unitPrice)  
3
```

Notifications Messages Explain Scratch Pad Data Output

CREATE INDEX

Query returned successfully in 589 msec.

A15)

<div> <div>Query Editor</div> <div>Query History</div> </div> <div> <div>1</div> <div>select *</div> </div> <div> <div>2</div> <div>from sales.salesOrderDetail</div> </div> <div> <div>3</div> <div>where unitprice = 153.149</div> </div>										
<div> <div>Notifications</div> <div>Messages</div> <div>Explain</div> <div>Scratch Pad</div> <div>Data Output</div> </div>										
	salesorderid [PK] integer	salesorderdetailid [PK] integer	carriertrackingnumber character varying (25)	orderqty smallint	productid integer	specialofferid integer	unitprice numeric	unitpricediscount numeric	rowguid uuid	modifieddate timestamp without time zone
1	51124	36654	5EEF-4271-BB	14	917	2	153.149	0.02	a395449c-...	2013-05-30 00:00:00
2	51160	37552	3F3F-4135-B0	12	917	2	153.149	0.02	8d1ceff7-b...	2013-05-30 00:00:00
3	51822	41728	EEEE-45C1-87	13	917	2	153.149	0.02	21ed9349-...	2013-06-30 00:00:00
4	53518	48388	5712-444B-BC	11	944	2	153.149	0.02	3b4efec2-b...	2013-07-31 00:00:00
5	53518	48394	5712-444B-BC	11	917	2	153.149	0.02	fb995691-c...	2013-07-31 00:00:00
6	53573	49706	F674-4899-B9	11	917	2	153.149	0.02	1167c9ba-...	2013-07-31 00:00:00

P15)

Query Editor

Query History

1

`explain select *`

2

`from sales.salesOrderDetail`

3

`where unitprice = 153.149`

Notifications

Messages

Explain

Scratch Pad

Data Output

QUERY PLAN

text

1

Bitmap Heap Scan on salesorderdetail (cost=5.01..254.59 rows=76 width=64)

2

Recheck Cond: (unitprice = 153.149)

3

-> Bitmap Index Scan on index\_salesorderdetail\_unitprice (cost=0.00..4.99 rows=76 width=0)

4

Index Cond: (unitprice = 153.149)

A16)

```

1 select *
2 from sales.salesOrderDetail
3 where unitprice < 153.149

```

Notifications Messages Explain Scratch Pad Data Output

	salesorderid [PK] integer	salesorderdetailid [PK] integer	carriertrackingnumber character varying (25)	orderqty smallint	productid integer	specialofferid integer	unitprice numeric	unitpricediscount numeric	rowguid uuid	modifieddate timestamp without time zone
1	43659	8	4911-403C-98	3	714	1	28.8404	0	e9d54907-e7b...	2011-05-31 00:00:00
2	43659	9	4911-403C-98	1	716	1	28.8404	0	aa542630-bdc...	2011-05-31 00:00:00
3	43659	10	4911-403C-98	6	709	1	5.7	0	ac769034-3c2...	2011-05-31 00:00:00
4	43659	11	4911-403C-98	2	712	1	5.1865	0	06a66921-6b9...	2011-05-31 00:00:00
5	43659	12	4911-403C-98	4	711	1	20.1865	0	0e371ee3-253...	2011-05-31 00:00:00
6	43661	18	4E0A-4F89-AE	4	712	1	5.1865	0	f0f410b6-bc93...	2011-05-31 00:00:00
7	43661	19	4E0A-4F89-AE	4	715	1	28.8404	0	ae4cda7d-9b6...	2011-05-31 00:00:00
8	43661	23	4E0A-4F89-AE	2	711	1	20.1865	0	935a70b5-33a...	2011-05-31 00:00:00
9	43661	27	4E0A-4F89-AE	2	716	1	28.8404	0	d87d5edb-b89...	2011-05-31 00:00:00
10	43661	29	4E0A-4F89-AE	5	708	1	20.1865	0	6c0d0601-76ff...	2011-05-31 00:00:00
11	43664	55	2F44-4BA1-BB	1	714	1	28.8404	0	076636af-a24f...	2011-05-31 00:00:00
12	43664	56	2F44-4BA1-BB	1	716	1	28.8404	0	c77b6559-1f2...	2011-05-31 00:00:00
13	43665	61	19F0-4638-8E	2	711	1	20.1865	0	d74427b2-27e...	2011-05-31 00:00:00
14	43665	63	19F0-4638-8E	1	707	1	20.1865	0	e4a00fc2-6ed...	2011-05-31 00:00:00
15	43665	64	19F0-4638-8E	2	715	1	28.8404	0	3cfb91f3-98ab...	2011-05-31 00:00:00
16	43665	66	19F0-4638-8E	2	712	1	5.1865	0	9342c497-f31...	2011-05-31 00:00:00
17	43665	69	19F0-4638-8E	6	709	1	5.7	0	4a399178-c0a...	2011-05-31 00:00:00
18	43667	77	4DFB-4B10-A6	3	710	1	5.7	0	a3f2749d-522...	2011-05-31 00:00:00
19	43668	85	365D-4C9A-BE	6	715	1	28.8404	0	ec1a080e-1ec...	2011-05-31 00:00:00
20	43668	87	365D-4C9A-BE	2	707	1	20.1865	0	c0517f7a-899...	2011-05-31 00:00:00

P16)

Query Editor

Query History

1

explain select \*

2

from sales.salesOrderDetail

3

where unitprice < 153.149

Notifications

Messages

Explain

Scratch Pad

Data Output

QUERY PLAN

text

1

Seq Scan on salesorderdetail (cost=0.00..2955.46 rows=70179 width=64)

2

Filter: (unitprice < 153.149)

A17)

```

1 select *
2 from sales.salesOrderDetail
3 where unitprice > 153.149

```

Notifications Messages Explain Scratch Pad Data Output

	salesorderid [PK] integer	salesorderdetailid [PK] integer	carriertrackingnumber character varying (25)	orderqty smallint	productid integer	specialofferid integer	unitprice numeric	unitpricediscount numeric	rowguid uuid	modifieddate timestamp without time zone
1	43659	1	4911-403C-98	1	776	1	2024.994	0	b207c96d-d9e...	2011-05-31 00:00:00
2	43659	2	4911-403C-98	3	777	1	2024.994	0	7abb600d-1e7...	2011-05-31 00:00:00
3	43659	3	4911-403C-98	1	778	1	2024.994	0	475cf8c6-49f6...	2011-05-31 00:00:00
4	43659	4	4911-403C-98	1	771	1	2039.994	0	04c4de91-581...	2011-05-31 00:00:00
5	43659	5	4911-403C-98	1	772	1	2039.994	0	5a74c7d2-e64...	2011-05-31 00:00:00
6	43659	6	4911-403C-98	2	773	1	2039.994	0	ce472532-a4c...	2011-05-31 00:00:00
7	43659	7	4911-403C-98	1	774	1	2039.994	0	80667840-f96...	2011-05-31 00:00:00
8	43660	13	6431-4D57-83	1	762	1	419.4589	0	419a1302-ac7...	2011-05-31 00:00:00
9	43660	14	6431-4D57-83	1	758	1	874.794	0	5d0b2b03-1d4...	2011-05-31 00:00:00
10	43661	15	4E0A-4F89-AE	1	745	1	809.76	0	ede1759e-673...	2011-05-31 00:00:00
11	43661	16	4E0A-4F89-AE	1	743	1	714.7043	0	fe10bf09-d477...	2011-05-31 00:00:00
12	43661	17	4E0A-4F89-AE	2	747	1	714.7043	0	b136852e-24c...	2011-05-31 00:00:00
13	43661	20	4E0A-4F89-AE	2	742	1	722.5949	0	054a9d3b-a17...	2011-05-31 00:00:00
14	43661	21	4E0A-4F89-AE	3	775	1	2024.994	0	8c342a15-857...	2011-05-31 00:00:00
15	43661	22	4E0A-4F89-AE	2	778	1	2024.994	0	b2760b75-3f1...	2011-05-31 00:00:00
16	43661	24	4E0A-4F89-AE	2	741	1	818.7	0	2f911593-e3b...	2011-05-31 00:00:00
17	43661	25	4E0A-4F89-AE	4	776	1	2024.994	0	e8e15b60-3a7...	2011-05-31 00:00:00
18	43661	26	4E0A-4F89-AE	2	773	1	2039.994	0	4373070f-4ebf...	2011-05-31 00:00:00
19	43661	28	4E0A-4F89-AE	2	777	1	2024.994	0	c5762004-de9...	2011-05-31 00:00:00
20	43662	30	2E53-4802-85	3	764	1	419.4589	0	2dfd4d76-e02...	2011-05-31 00:00:00

P17)

```
1 explain select *  
2 from sales.salesOrderDetail  
3 where unitprice > 153.149
```

Notifications Messages Explain Scratch Pad Data Output

QUERY PLAN

text



1	Seq Scan on salesorderdetail (cost=0.00..2955.46 rows=51062 width=64)
2	Filter: (unitprice > 153.149)