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PRACTICE 2




What earned

Chemistry

2. Find all the food descriptions (food_des) records for manufacturer Kellogg, Co. (must include punctuation for exact match)
3. Find the number of records in data sources (data_src) that were published after year 2000 (it is numeric field)
4. Find the number of records in food description table that have pro_factor greater than 1.5 and fat_factor less than 5
5. Find the record in data source table that is from year 1990 and the journal Cereal Foods World
6. Select the records in nutr_def table (nutrition definitions) that have units of kj of kcal
7. Select all records from data source table (data_src) that where from the year 2000 or the journal Food Chemistry
8. Find all the records in data sources that where between 1990 and 2000 and either 'J. Food Protection' or 'Food Chemistry'
9. Use BETWEEN syntax to find number of weight records that weight between 50 and 75 grams (gm_wgt)
10. Select all records from the data source table that were published in years 1960, 1970, 1980, 1990 and 2000. Use the IN syntax

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```
select *
from data_src ds
where journal = 'Food Chemistry';

select *
from food_des fd
where manufacname = 'Kellogg, Co'
|

select COUNT (*)
from data_src ds
where year > 2000;

select count(*)
from food_des fd
where pro_factor > 1.5 and fat_factor < 5;

select *
from data_src ds
where year = '1990' and journal = 'Cereal Foods World';

select *
from nutr_def nd
where units in ('kj', 'kcal');

select *
from data_src ds
where year = '2000' or journal = 'Food Chemistry';

select *
from data_src ds
where year between '1990' and '2000' and journal = 'J. Food Protection' or journal = 'Food Chemistry';

select count (*) as jumlah_weight
from weight w
where gm_wgt between '50' and '75';

select *
from data_src ds
where year in (1960, 1970, 1980, 1990, 2000);
```

1.

data_src 1data_src 2

select * from data_src_ds where journal :

Enter a SQL expression to filter results (use Ctrl+Space)

	datasrc_id	ABC authors	ABC title	123 year	ABC journal	
1	D1417	O. Longe	Effect of boiling on the carbohydrate constituent:	1,981	Food Chemistry	7
2	D3780	J Marlett, N Vollendorf	Dietary fiber content and composition of differen	1,994	Food Chemistry	5
3	D3863	K. Bhaskarachary, D.S. Sankar Rao, Y.G. Deosthale	Carotene content of some common and less fam	1,995	Food Chemistry	5
4	D3924	D.J. Hart, K.J. Scott	Development and evaluation of an HPLC method	1,995	Food Chemistry	5
5	D3964	A.J. Speek, S. Speek-Saichua, W.H. P. Schreurs	Total carotenoid and B-carotene contents of Thai	1,988	Food Chemistry	2
6	D3969	E-Siong Tee, Chin-Lam Lim	Carotenoid composition and content of Malaysia	1,991	Food Chemistry	4
7	D4043	E. Jakob, I. Elmadfa	Application of a Simplified HPLC Assay for the De	1,996	Food Chemistry	5
8	D4050	M.J. Shearer, C. Bolton-Smith	The UK Food Data-Base for Vitamin K and Whv W	1,999	Food Chemistrv	6

RefreshSaveCancel

20016

Export data

16 row(s) fetched - 0.003s (0.001s fetch), on 2024-02-22 at 09:37:30

2.

	ABC ndb_no	ABC fdgrp_cd	ABC long_desc	ABC shrt_desc	ABC comname	ABC manufacname	ABC survey	ABC ref_des

3.

select COUNT (*) from data_src_ds wher

Enter a SQL expression to filter results (use Ctrl+Space)

	123 count
1	87

RefreshSaveCancel

2001

Export data

1 row(s) fetched - 0.001s, on Feb 22, 10:31:09

4.

SQL: `select count(*) from food_des fd where` Enter a SQL expression to filter results (use Ctrl+Space)

Grid	123 count
1	5

All columns are read-only

Refresh Save Cancel Export data 200 1

1 row(s) fetched - 0.045s, on 2024-02-22 at 10:24:47

5.

SQL: `select * from data_src ds where year = '1'` Enter a SQL expression to filter results (use Ctrl+Space)

Grid	data_src_id	authors	title	123 year	ABC journal	ABC vol_city	ABC issn
1	D3766	V Chaudhary, F Weber	Barley bran flour evaluated as dietary fiber ingred	1,990	Cereal Foods World	35	6

Refresh Save Cancel Export data 200 1

1 row(s) fetched - 0.040s, on 2024-02-22 at 10:28:15

6.

SQL: `select * from nutr_def nd where units in` Enter a SQL expression to filter results (use Ctrl+Space)

Grid	123 nutr_no	ABC units	ABC tagname	ABC nutrdesc	123 num_dec	123 sr_order
1	208	kcal	ENERC_KCAL	Energy	0	300
2	268	kJ	ENERC_KJ	Energy	0	400

Refresh Save Cancel Export data 200 2

2 row(s) fetched - 0.002s, on 2024-02-22 at 10:37:34

7.

SQL: `select * from data_src ds where year = '2'` Enter a SQL expression to filter results (use Ctrl+Space)

Grid	data_src_id	authors	title	123 year	ABC journal	ABC issn
17	D4864	M. Padula, D.B. Rodriguez-Amaya	Characteristics of the carotenoids and assessmen	1,986	Food Chemistry	2
18	D4901	J.I. Rader, C. M. Weaver, G. Angyal	Total folate in enriched cereal grain products in th	2,000	Food Chemistry	7
19	D5841	E.A. Tosi, E. Ré, H. Lucero, R. Masciarelli	Dietary fiber obtained from amaranth (Amaranthu	2,001	Food Chemistry	7
20	S1341	California Prune Board	Carotenoid Analysis of Prunes	2,000		
21	S14	National Cattlemen's Beef Association (NCBA)	Nutrient Content of Ground Beef	2,000		
22	S1742	Nutrient Data Laboratory, ARS, USDA	National Food and Nutrient Analysis Program - Ir	2,000		
23	S2	National Cattlemen's Beef Association (NCBA)	Nutrient Content of Retail Beef Cuts with 1/8 inch	2,000		
24	S22	Nutrient Data Laboratory, ARS, USDA	National Food and Nutrient Analysis Program Wa	2,000		

Refresh Save Cancel Export data 200 32

32 row(s) fetched - 0.002s (0.001s fetch), on 2024-02-22 at 10:40:22

8.

select * from data_src ds where year bet

	ABC authors	ABC title	123 year	ABC journal	ABC vol_city
1	O. Longe	Effect of boiling on the carbohydrate constituent	1,981	Food Chemistry	7
2	J Marlett, N Vollendorf	Dietary fiber content and composition of differen	1,994	Food Chemistry	51
3	K. Bhaskarachary, D.S. Sankar Rao, Y.G. Deosthale	Carotene content of some common and less fam	1,995	Food Chemistry	54
4	B.H. Chen	Studies on the stability of carotenoids in garland	1,995	J. Food Protection	55
5	B.H. Chen, J.R. Chuang, J.H. Lin, P. Chiu	Quantification of provitamin A compounds in Ch	1,993	J. Food Protection	56
6	D.J. Hart, K.J. Scott	Development and evaluation of an HPLC method	1,995	Food Chemistry	54
7	A.J. Speek, S. Speek-Saichua, W.H. P. Schreurs	Total carotenoid and B-carotene contents of Thai	1,988	Food Chemistry	27
8	E-Siong Tee, Chin-Lam Lim	Carotenoid composition and content of Malaysia	1 901	Food Chemistry	41

Refresh Save Cancel Export data 200 18

18 row(s) fetched - 0.003s, on 2024-02-22 at 10:48:53

9.

select count (*) as jumlah_weight from

	123 jumlah_weight
1	933

All columns are read-only

Refresh Save Cancel Export data 200 1

1 row(s) fetched - 0.008s, on 2024-02-22 at 10:54:18

10.

select * from data_src ds where year in (

	data_src_id	ABC authors	ABC title	123 year	ABC journal
1	D1191	I.J. Tinsley, R.R. Lowry	Bromine content of lipids of marine organisms	1,980	American Oil Chemists' Society, Journal
2	D3296	C.E. Damon, B.C. Pettitt	Sugars and Sugar Products: High Performance Lic	1,980	J. AOAC
3	D3309	M. Horbowicz	Adaptation of the method of sugars determinatio	1,980	Acta Alimentaria Polonica
4	D3318	D.A. Kline	Quantitative determination of sugars in fruits by	1,970	Journal of AOAC International
5	D3321	C. Y. Lee	Free sugars in fruits and vegetables	1,970	Food Science and Technology
6	D3339	K.W. Swallow, N.H. Low	Analysis And Quantitation Of The Carbohydrates	1,990	Journal of Agricultural and Food Chemist
7	D3357	V.C. Morris, O.A. Levander	Selenium content of food	1,970	Journal of Nutrition
8	D3358	A.L. Meyer, D.L. Palmquist	Selenium content of foods grown or sold in Ohio	1 980	Ohio Report

Refresh Save Cancel Export data 200 42

42 row(s) fetched - 0.002s, on 2024-02-22 at 10:58:12

PRACTICE 3

1. Query:

```
select *
from salesorderdetail s
where productid = 799
order by orderqty desc ;
```

select * from salesorderdetail s where pr Enter a SQL expression to filter results (use Ctrl+Space)

	123 salesorderid	123 salesorderdetailid	ABC carriertrackingnumber	123 orderqty	123 productid	123 specialofferid	123
1	46,666	12,057	1A94-4D1F-AF	9	799	1	
2	50,304	32,848	9338-4FCD-A5	7	799	1	
3	48,065	sales.salesorderheader 1,835	1B78-4DE6-BC	7	799	1	
4	67,280	95,877	D663-42E1-A2	7	799	1	
5	49,147	27,075	B753-40C9-A6	7	799	1	
6	55,264	55,118	80F3-4A7B-A2	7	799	1	
7	49,076	26,118	8DE0-4335-95	7	799	1	
8	47,455	17,983	41F3-48C2-B7	7	799	1	
9	46,981	13,693	22F4-4440-81	6	799	1	

2. Query:

```
select max(discountpct) as diskon_terbesar
from specialoffer s ;
```

select max(discountpct) as diskon_terbe Enter a SQL e.

	123 diskon_terbesar	
1	0.5	

3. Query:

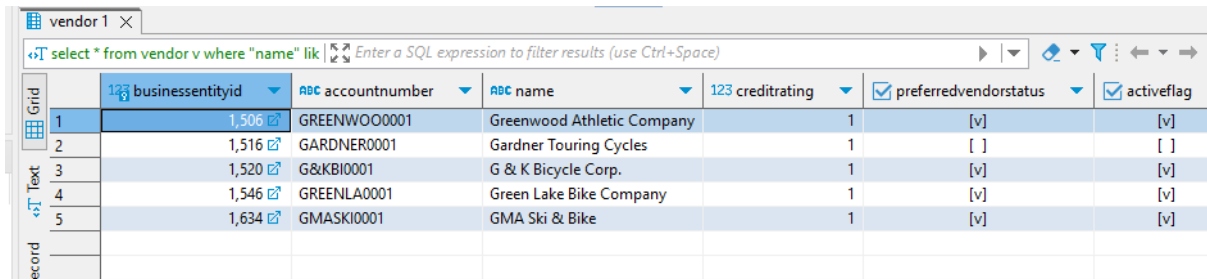
```
select sum(scrappedqty)
from workorder w
where productid = 529;
```

select sum(scrappedqty) from workorde Enter

	123 sum	
1	422	

4. Query:

```
select *
from vendor v
where "name" like 'G%';
```

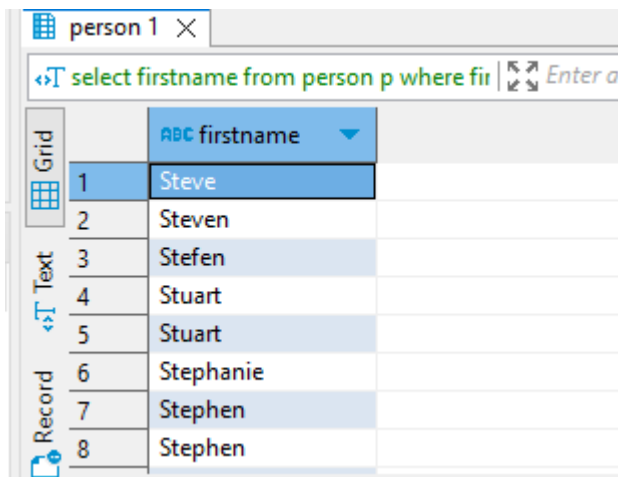


The screenshot shows a data grid titled 'vendor 1'. The query bar contains 'select * from vendor v where "name" like 'G%';'. The grid has 7 columns: businessentityid, accountnumber, name, creditrating, preferredvendorstatus, and activeflag. The results are as follows:

	businessentityid	accountnumber	name	creditrating	preferredvendorstatus	activeflag
1	1,506	GREENWOO0001	Greenwood Athletic Company	1	[v]	[v]
2	1,516	GARDNER0001	Gardner Touring Cycles	1	[]	[]
3	1,520	G&KBIO001	G & K Bicycle Corp.	1	[v]	[v]
4	1,546	GREENLA0001	Green Lake Bike Company	1	[v]	[v]
5	1,634	GMASKIO001	GMA Ski & Bike	1	[v]	[v]

5. Query:

```
select firstname
from person p
where firstname like '_t%';
```

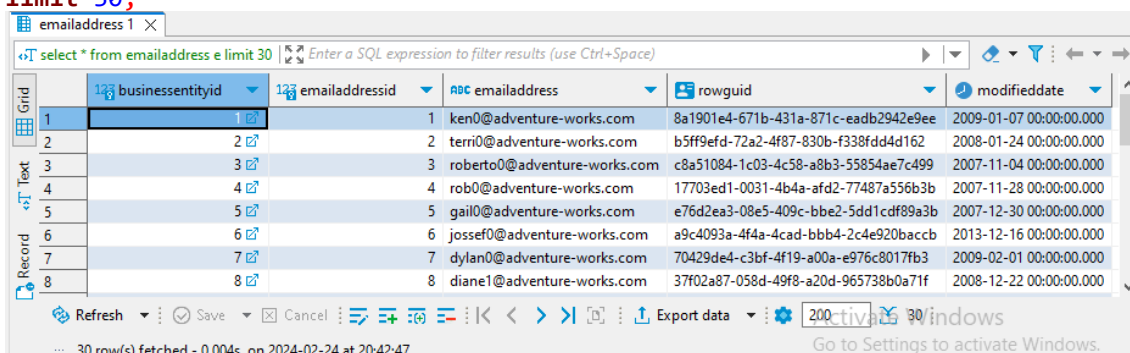


The screenshot shows a data grid titled 'person 1'. The query bar contains 'select firstname from person p where fir'. The grid has 2 columns: firstname. The results are as follows:

	firstname
1	Steve
2	Steven
3	Stefen
4	Stuart
5	Stuart
6	Stephanie
7	Stephen
8	Stephen

6. Query:

```
select *
from emailaddress e
limit 30;
```



The screenshot shows a data grid titled 'emailaddress 1'. The query bar contains 'select * from emailaddress e limit 30;'. The grid has 6 columns: businessentityid, emailaddressid, emailaddress, rowguid, and modifieddate. The results are as follows:

	businessentityid	emailaddressid	emailaddress	rowguid	modifieddate
1	1	1	ken0@adventure-works.com	8a1901e4-671b-431a-871c-eadb2942e9ee	2009-01-07 00:00:00.000
2	2	2	terri0@adventure-works.com	b5ff9efd-72a2-4f87-830b-f338fd4d162	2008-01-24 00:00:00.000
3	3	3	roberto0@adventure-works.com	c8a51084-1c03-4c58-a8b3-55854ae7c499	2007-11-04 00:00:00.000
4	4	4	rob0@adventure-works.com	17703ed1-0031-4b4a-afd2-77487a556b3b	2007-11-28 00:00:00.000
5	5	5	gail0@adventure-works.com	e76d2ea3-08e5-409c-bbe2-5dd1cdf89a3b	2007-12-30 00:00:00.000
6	6	6	josef0@adventure-works.com	a9c4093a-4f4a-4cad-bbb4-2c4e920baccb	2013-12-16 00:00:00.000
7	7	7	dylan0@adventure-works.com	70429de4-c3bf-4f19-a00a-e976c8017fb3	2009-02-01 00:00:00.000
8	8	8	diane1@adventure-works.com	37f02a87-058d-49f8-a20d-965738b0a71f	2008-12-22 00:00:00.000

30 row(s) fetched - 0.004s, on 2024-02-24 at 20:42:47

7. Query:

```
select *  
from person p  
where additionalcontactinfo is not null;
```

	e	ABC lastname	ABC suffix	123 emailpromotion	additionalcontactinfo	demographics	rowguid
1		Achong	[NULL]	2	[XML]	[XML]	d4c132d3-fcb5-4231-9d
2		Abel	[NULL]	1	[XML]	[XML]	d54e0552-c226-4c22-af
3		Abercrombie	[NULL]	0	[XML]	[XML]	f7cbdb48-0b44-470e-9f
4		Acevedo	[NULL]	2	[XML]	[XML]	5a41d336-84cf-44d7-b1
5		Ackerman	[NULL]	0	[XML]	[XML]	df1fb8ab-2323-4330-9a
6		Adams	[NULL]	1	[XML]	[XML]	66980082-c186-40ae-97
7		Smith	[NULL]	0	[XML]	[XML]	691818e1-fc19-445f-b1

BUAT CONTOH KASUS

Contoh buat kasus inner join

```
select o.shipname , o.orderdate , e.firstname , e.title
from orders o
inner join employees e on o.employeeid = e.employeeid ;
```

<>T select o.shipname , o.orderdate , e.firstn Enter a SQL expression to filter results (use Ctrl+Space)					
Grid	ABC shipname	orderdate	ABC firstname	ABC title	
1	Vins et alcools Chevalier	1996-07-04	Steven	Sales Manager	
2	Toms Spezialitäten	1996-07-05	Michael	Sales Representative	
3	Hanari Carnes	1996-07-08	Margaret	Sales Representative	
4	Victuailles en stock	1996-07-08	Janet	Sales Representative	
5	Suprêmes délices	1996-07-09	Margaret	Sales Representative	
6	Hanari Carnes	1996-07-10	Janet	Sales Representative	
7	Chop-suey Chinese	1996-07-11	Steven	Sales Manager	
8	Richter Supermarkt	1996-07-12	Anne	Sales Representative	
9	Wellington Importadora	1996-07-15	Janet	Sales Representative	
10	WHILEN ABLE...	1996-07-15	Margaret	Sales Representative	

Contoh buat kasus Left Join

```
select o.shipname , o.orderdate , e.firstname , e.title
from orders o
left join employees e on o.employeeid = e.employeeid ;
```

<>T select o.shipname , o.orderdate , e.firstn Enter a SQL expression to filter results (use Ctrl+Space)					
Grid	ABC shipname	orderdate	ABC firstname	ABC title	
34	Romero y tomillo	1996-08-14	Margaret	Sales Representative	
35	Romero y tomillo	1996-08-15	Margaret	Sales Representative	
36	LILA-Supermercado	1996-08-16	Janet	Sales Representative	
37	Lehmanns Marktstand	1996-08-19	Margaret	Sales Representative	
38	QUICK-Stop	1996-08-20	Nancy	Sales Representative	
39	QUICK-Stop	1996-08-21	Laura	Inside Sales Coordina	
40	Ricardo Adocicados	1996-08-22	Laura	Inside Sales Coordina	
41	Reggiani Caseifici	1996-08-23	Margaret	Sales Representative	
42	B's Beverages	1996-08-26	Robert	Sales Representative	
43	Camêria Missio	1996-08-27	Laura	Inside Sales Coordina	

Contoh buat kasus Right Join

```
select o.shipname , o.orderdate , e.firstname , e.title
from orders o
right join employees e on o.employeeid = e.employeeid ;
```


orders(+)					
orders(+)					
orders(+)					
select o.shipname, o.orderdate, e.firstname					
Enter a SQL expression to filter results (use Ctrl+Space)					
Grid	ABC shipname	orderdate	ABC firstname	ABC title	
22	White Clover Markets	1996-07-31	Steven	Sales Manager	
23	Wartian Herkku	1996-08-01	Nancy	Sales Representative	
24	Split Rail Beer & Ale	1996-08-01	Michael	Sales Representative	
25	Rattlesnake Canyon Groc	1996-08-02	Michael	Sales Representative	
26	QUICK-Stop	1996-08-05	Janet	Sales Representative	
27	Vins et alcools Chevalier	1996-08-06	Michael	Sales Representative	
28	Magazzini Alimentari Riui	1996-08-07	Nancy	Sales Representative	
29	Tortuga Restaurante	1996-08-08	Laura	Inside Sales Coordina	
Refresh Save Cancel Export data 200 200+					
200 row(s) fetched - 0.005s (0.002s fetch), on 2024-02-23 at 23:32:39					

Contoh buat kasus Full Join

```
select o.shipname , o.orderdate , e.firstname , e.title
from orders o
full join employees e on o.employeeid = e.employeeid ;
```

select o.shipname, o.orderdate, e.firstname					
Enter a SQL expression to filter results (use Ctrl+Space)					
Grid	ABC shipname	orderdate	ABC firstname	ABC title	
1	Vins et alcools Chevalier	1996-07-04	Steven	Sales Manager	
2	Toms Spezialitäten	1996-07-05	Michael	Sales Representative	
3	Hanari Carnes	1996-07-08	Margaret	Sales Representative	
4	Victuailles en stock	1996-07-08	Janet	Sales Representative	
5	Suprêmes délices	1996-07-09	Margaret	Sales Representative	
6	Hanari Carnes	1996-07-10	Janet	Sales Representative	
7	Chop-suey Chinese	1996-07-11	Steven	Sales Manager	
8	Richter Supermarkt	1996-07-12	Anne	Sales Representative	
9	Wellington Importadora	1996-07-15	Janet	Sales Representative	
10	LIU ABIOM Abaster	1996-07-16	Margaret	Sales Representative	

Contoh buat kasus Multiple Join

```
select o.shipname , o.orderdate , e.firstname , e.title, c.contactname ,
c.address
from orders o
join employees e on o.employeeid = e.employeeid
join customers c on c.customerid = o.customerid ;
```

select o.shipname, o.orderdate, e.firstname						
Enter a SQL expression to filter results (use Ctrl+Space)						
Grid	ABC shipname	orderdate	ABC firstname	ABC title	ABC contactname	ABC address
1	Vins et alcools Chevalier	1996-07-04	Steven	Sales Manager	Paul Henriot	59 rue de l'Abbaye
2	Toms Spezialitäten	1996-07-05	Michael	Sales Representative	Karin Josephs	Luisenstr. 48
3	Hanari Carnes	1996-07-08	Margaret	Sales Representative	Mario Pontes	Rua do Paço, 67
4	Victuailles en stock	1996-07-08	Janet	Sales Representative	Mary Saveley	2, rue du Commerce
5	Suprêmes délices	1996-07-09	Margaret	Sales Representative	Pascale Cartrain	Boulevard Tirou, 255
6	Hanari Carnes	1996-07-10	Janet	Sales Representative	Mario Pontes	Rua do Paço, 67
7	Chop-suey Chinese	1996-07-11	Steven	Sales Manager	Yang Wang	Hauptstr. 29
8	Richter Supermarkt	1996-07-12	Anne	Sales Representative	Michael Holz	Grenzacherweg 237
9	Wellington Importadora	1996-07-15	Janet	Sales Representative	Paula Parente	Rua da Mouraria, 12

PRACTICE 4

1. Query:

```
select p.firstname , p.middlename , p.lastname , p2.phonenumber ,
p2.phonumbertypeid, p3."name"
from person p
inner join personphone p2 on p.businessentityid = p2.businessentityid
inner join phonumbertype p3 on p2.phonumbertypeid = p3.phonumbertypeid
order by p2.businessentityid desc ;
```

SQL Query: `select p.firstname, p.middlename, p.lastname, p2.phonenumber, p2.phonumbertypeid, p3.name`

	ABC firstname	ABC middlename	ABC lastname	ABC phonenumber	123 phonumbertypeid	ABC name
1	Crystal	[NULL]	Hu	1 (11) 500 555-0126	2	Home
2	Crystal	[NULL]	Zheng	1 (11) 500 555-0171	2	Home
3	Crystal	S	He	813-555-0148	2	Home
4	Isabella	F	Richardson	910-555-0166	1	Cell
5	Crystal	[NULL]	Guo	1 (11) 500 555-0171	1	Cell
6	Crystal	J	Liang	1 (11) 500 555-0120	2	Home
7	Isabella	[NULL]	Bailey	808-555-0174	1	Cell
8	Crystal	J	Gao	1 (11) 500 555-0136	1	Cell
9	Crystal	C	Zhu	1 (11) 500 555-0180	2	Home
10	Isabella	[NULL]	Murphy	1 (11) 500 555-0117	2	Home

2. Query:

```
select p."name" , p2.rating , p2."comments"
from product p
inner join productreview p2 on p.productid = p2.productid
order by p2.rating asc;
```

SQL Query: `select p.name, p2.rating, p2.comments`

	ABC name	123 rating	ABC comments
1	HL Mountain Pedal	2	Maybe it's just because I'm new to mountain biking, but I had a terrible time getting used to these pedals. In my first
2	HL Mountain Pedal	4	A little on the heavy side, but overall the entry/exit is easy in all conditions. I've used these pedals for more than 3 y
3	Mountain Bike Socks, M	5	I can't believe I'm singing the praises of a pair of socks, but I just came back from a grueling 13-day ride and these s
4	Road-550-W Yellow, 40	5	The Road-550-W from Adventure Works Cycles is everything it's advertised to be. Finally, a quality bike that's actu

3. Query:

```
select p."name" , w.orderqty , w.scrapedqty
from workorder w
right join product p on w.productid = p.productid
order by p.productid asc ;
```

SQL Query: `select p.name, w.orderqty, w.scrapedqty`

	ABC name	123 orderqty	123 scrappedqty
1	Adjustable Race	[NULL]	[NULL]
2	Bearing Ball	[NULL]	[NULL]
3	BB Ball Bearing	310	0
4	BB Ball Bearing	230	0
5	BB Ball Bearing	290	0
6	BB Ball Bearing	310	0
7	BB Ball Bearing	360	0
8	BB Ball Bearing	170	0
9	BB Ball Bearing	240	0
10	BB Ball Bearing	170	0