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Database driver: MySQL Workbench



```
1  /* 1. How many bidders did we have in October?*/  
2  SELECT COUNT(DISTINCT bidder_id) AS total_bidders_oct  
3  FROM misc.abc_bids  
4  WHERE MONTH(bid_date) = 10;
```

	total_bidders_oct
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▶	21
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6  /* 2. How many bids did these bidders make in October?*/
7  SELECT bidder_id, COUNT(DISTINCT bid_id) AS total_bids_oct
8  FROM misc.abc_bids
9  WHERE MONTH(bid_date) = 10
10 GROUP BY bidder_id
11 ORDER BY total_bids_oct DESC;
```

	bidder_id	total_bids_oct
▶	62e329abff03c2000d83079d	25
	5e9bf479c8ce886c85a237b9	23
	62a227deff03c2000b28e506	8
	62de2eb5ff03c2000f137373	7
	5f5bf9eec8ce880639fe9393	6
	600ed3a0c8ce886dac844326	6
	54c3586f421aa90e94a53497	5
	54c356f5421aa90e92aab121	3
	5b871bbfe3d4600e8076cc5f	2
	60130b4ac8ce886da943b405	2
	60f9ad9cc8ce886da7e41b40	2
	6359b3f4feb3d7000ca36001	2
	572cfa67421aa90c80a34448	1
	5872eb71421aa90ceab0bb2f	1
	5d42dd06e3d460052763b8ba	1
	5d687a77e3d460052b26884d	1
	5e44b8cbc8ce886c884331ec	1
	5e85a1d7c8ce886c84641f51	1
	5eac1301c8ce880620f02290	1
	62f2aa60ff03c2000d858f21	1
	63537c8bfeb3d7000bb32876	1

```

1  /* 3. What is the ratio of bids in Consumer Electronics vs. Apparel?*/
2  WITH bit_ratio_query AS (
3      SELECT bstock_category_name, COUNT(bid_id) AS total_bids
4      FROM misc.abc_bids
5      WHERE bstock_category_name IN('Consumer Electronics', 'Apparel, Footwear & Accessories')
6      GROUP BY bstock_category_name
7      ORDER BY total_bids DESC)
8
9  SELECT CAST(MIN(total_bids) / MAX(total_bids) AS DECIMAL(3,3)) AS electronics_apparel_ratio
10 FROM bit_ratio_query;

```

electronics_apparel_ratio
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▶ 0.084
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1  /* 4. How many bids were placed in Consumer Electronics & Furniture where the retail price was under $25,000?*/
2  WITH b AS (
3      SELECT *
4      FROM misc.abc_orders
5      WHERE bstock_category_name IN ('Consumer Electronics', 'Furniture')
6      AND CONVERT(REPLACE(retail_price, ',', ''), FLOAT) < 25000)
7
8  SELECT a.bstock_category_name, COUNT(DISTINCT a.bid_id) AS total_bids
9  FROM misc.abc_bids AS a
10 INNER JOIN b
11 ON a.auction_id = b.id_auction
12 GROUP BY a.bstock_category_name;

```

bstock_category_name	total_bids
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▶ Consumer Electronics	27
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37  /* 5. Why would we want to know the number of bids and bids (over time)? */
38  SELECT DISTINCT str_to_date(auction_date, '%m/%d/%Y') AS auction_date_transformed,
39      auction_id,
40      bstock_category_name,
41      bid_date,
42      bid_id,
43      bidder_id,
44      CONVERT(REPLACE(REPLACE(bid_amount, '$', ''), ',', ''), FLOAT) AS bid_amount_transformed
45  FROM misc.abc_bids
46  ORDER BY auction_date_transformed ASC,
47      auction_id ASC,
48      bid_amount_transformed ASC;
49
```

	auction_date_transformed	auction_id	bstock_category_name	bid_date	bid_id	bidder_id	bid_amount_transfor...
▶	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:49.000000 UTC	16819417	1	10
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:50.000000 UTC	16819418	1	100
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:51.000000 UTC	16819419	2	101
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:52.000000 UTC	16819420	1	200
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:53.000000 UTC	16819421	2	201
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:54.000000 UTC	16819422	1	300
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:55.000000 UTC	16819423	3	600
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:56.000000 UTC	16819424	2	601
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:57.000000 UTC	16819425	1	700
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:58.000000 UTC	16819426	3	1000
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:59.000000 UTC	16819427	2	1001
	2022-09-10	1500000	Apparel, Footwear & Accessories	2022-09-10 17:22:59.000000 UTC	16819428	1	1100
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 19:08:35.000000 UTC	17768183	54c35849421aa90e9061a6d5	100
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 19:11:31.000000 UTC	17768280	62e329abff03c2000d83079d	125
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 19:13:49.000000 UTC	17768356	6013639cc8ce886da943be4d	200
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 19:23:19.000000 UTC	17768645	54c35627421aa90e95616a59	225
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 19:29:43.000000 UTC	17768859	626ead6dff03c2000b200ba3	250
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 19:39:02.000000 UTC	17769180	54c35627421aa90e95616a59	325
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 20:43:17.000000 UTC	17771112	54c36026421aa90e9061f860	500
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 23:53:02.000000 UTC	17772838	6013639cc8ce886da943be4d	600
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-07 20:38:56.000000 UTC	17771003	62fd8812ff03c2000d878106	650
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-08 09:07:34.000000 UTC	17774562	60f9ad9cc8ce886da7e41b40	650

	auction_date_transformed	auction_id	bstock_category_name	bid_date	bid_id	bidder_id	bid_amount_transfor...
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-08 09:08:44.000000 UTC	17774565	60f9ad9cc8ce886da7e41b40	701
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-08 16:26:00.000000 UTC	17776737	5e85a1d7c8ce886c84641f51	826
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-08 09:36:09.000000 UTC	17774588	62fd8812ff03c2000d878106	926
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-08 16:26:10.000000 UTC	17776739	5e85a1d7c8ce886c84641f51	987
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-08 22:17:17.000000 UTC	17789573	61659a6cc8ce886da7f6cf1f	1532
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-08 18:10:13.000000 UTC	17780054	5e45a255c8ce886c859ecfee	1590
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-11 05:10:50.000000 UTC	17801417	620412efc8ce885c4ac7395f	1850
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-11 05:10:58.000000 UTC	17801418	620412efc8ce885c4ac7395f	2005
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-09 18:55:13.000000 UTC	17795456	5eed011ac8ce880625ba0a1c	2025
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 15:20:18.000000 UTC	17817191	62e329abff03c2000d83079d	2075
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 15:20:28.000000 UTC	17817194	62e329abff03c2000d83079d	2125
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-11 05:11:07.000000 UTC	17801419	620412efc8ce885c4ac7395f	2150
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 15:20:44.000000 UTC	17817196	62e329abff03c2000d83079d	2201
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 15:29:34.000000 UTC	17817274	6013639cc8ce886da943be4d	2300
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 15:32:53.000000 UTC	17817293	62e329abff03c2000d83079d	2337
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:09:14.000000 UTC	17818964	54c36026421aa90e9061f860	2500
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:03:14.000000 UTC	17818776	6013639cc8ce886da943be4d	2501
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:09:38.000000 UTC	17818980	54c36026421aa90e9061f860	2530
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:12:57.000000 UTC	17819098	62e329abff03c2000d83079d	2580
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:10:40.000000 UTC	17819008	6013639cc8ce886da943be4d	2600
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:13:09.000000 UTC	17819104	62e329abff03c2000d83079d	2625
	2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:20:25.000000 UTC	17819347	54c36026421aa90e9061f860	2670

auction_date_transformed	auction_id	bstock_category_name	bid_date	bid_id	bidder_id	bid_amount_transfor...
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:20:53.000000 UTC	17819361	62e329abff03c2000d83079d	2750
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:22:49.000000 UTC	17819417	54c36026421aa90e95616a59	2750
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:24:24.000000 UTC	17819472	54c36026421aa90e95616a59	2800
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:24:32.000000 UTC	17819478	6013639cc8ce886da943be4d	2801
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:25:47.000000 UTC	17819520	62e329abff03c2000d83079d	2826
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:33:07.000000 UTC	17819736	62e329abff03c2000d83079d	2876
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:32:46.000000 UTC	17819729	6013639cc8ce886da943be4d	2900
2022-09-13	1640483	Apparel, Footwear & Accessories	2022-09-13 17:33:16.000000 UTC	17819741	62e329abff03c2000d83079d	3000
2022-09-13	1640484	Apparel, Footwear & Accessories	2022-09-07 19:36:19.000000 UTC	17769076	62e329abff03c2000d83079d	100
2022-09-13	1640484	Apparel, Footwear & Accessories	2022-09-07 19:44:44.000000 UTC	17769312	54c35627421aa90e95616a59	150
2022-09-13	1640484	Apparel, Footwear & Accessories	2022-09-13 15:19:03.000000 UTC	17817181	62e329abff03c2000d83079d	155
2022-09-13	1640484	Apparel, Footwear & Accessories	2022-09-13 16:12:53.000000 UTC	17817684	62e329abff03c2000d83079d	207
2022-09-13	1640485	Furniture	2022-09-07 19:13:43.000000 UTC	17768355	62e329abff03c2000d83079d	100
2022-09-13	1640485	Furniture	2022-09-07 20:46:33.000000 UTC	17771200	5a4cd084e3d4600d289758a7	150
2022-09-13	1640485	Furniture	2022-09-07 19:47:20.000000 UTC	17769390	54c35627421aa90e95616a59	225
2022-09-13	1640485	Furniture	2022-09-07 23:08:12.000000 UTC	17772604	607c8433c8ce886dab9bbe12	250
2022-09-13	1640485	Furniture	2022-09-08 07:07:06.000000 UTC	17774437	572cfa67421aa90c80a34448	300
2022-09-13	1640485	Furniture	2022-09-08 09:11:09.000000 UTC	17774566	60f9ad9cc8ce886da7e41b40	301
2022-09-13	1640485	Furniture	2022-09-08 22:08:15.000000 UTC	17789514	61659a6cc8ce886da7f6cf1f	732
2022-09-13	1640485	Furniture	2022-09-08 16:27:24.000000 UTC	17776752	5e85a1d7c8ce886c84641f51	900
2022-09-13	1640485	Furniture	2022-09-10 05:50:46.000000 UTC	17799572	61841697c8ce886da7fc723d	950
2022-09-13	1640485	Furniture	2022-09-10 05:51:34.000000 UTC	17799573	61841697c8ce886da7fc723d	1000

auction_date_transformed	auction_id	bstock_category_name	bid_date	bid_id	bidder_id	bid_amount_transfor...
2022-09-13	1640485	Furniture	2022-09-08 22:08:25.000000 UTC	17789515	61659a6cc8ce886da7f6cf1f	1032
2022-09-13	1640485	Furniture	2022-09-10 08:02:33.000000 UTC	17799636	5e85a1d7c8ce886c84641f51	1200
2022-09-13	1640485	Furniture	2022-09-10 08:02:41.000000 UTC	17799637	5e85a1d7c8ce886c84641f51	1400
2022-09-13	1640485	Furniture	2022-09-10 08:02:55.000000 UTC	17799638	5e85a1d7c8ce886c84641f51	1700
2022-09-13	1640485	Furniture	2022-09-10 05:51:54.000000 UTC	17799574	61841697c8ce886da7fc723d	1777
2022-09-13	1640485	Furniture	2022-09-13 15:21:18.000000 UTC	17817200	62e329abff03c2000d83079d	1831
2022-09-13	1640485	Furniture	2022-09-13 15:21:29.000000 UTC	17817203	62e329abff03c2000d83079d	1902
2022-09-13	1640485	Furniture	2022-09-13 15:21:43.000000 UTC	17817207	62e329abff03c2000d83079d	2021
2022-09-13	1640485	Furniture	2022-09-13 15:21:59.000000 UTC	17817208	62e329abff03c2000d83079d	2111
2022-09-13	1640485	Furniture	2022-09-13 15:22:08.000000 UTC	17817210	62e329abff03c2000d83079d	2202
2022-09-13	1640485	Furniture	2022-09-13 15:48:38.000000 UTC	17817435	62e329abff03c2000d83079d	2302
2022-09-13	1640485	Furniture	2022-09-13 15:48:48.000000 UTC	17817437	62e329abff03c2000d83079d	2401
2022-09-13	1640485	Furniture	2022-09-12 22:33:26.000000 UTC	17813856	5d687a77e3d460052b26884d	2500
2022-09-13	1640485	Furniture	2022-09-13 15:48:56.000000 UTC	17817438	62e329abff03c2000d83079d	2521
2022-09-13	1640486	Consumer Electronics	2022-09-07 19:09:29.000000 UTC	17768209	62e329abff03c2000d83079d	100
2022-09-13	1640486	Consumer Electronics	2022-09-07 19:28:25.000000 UTC	17768808	62e6ad6dff03c2000b200ba3	125
2022-09-13	1640486	Consumer Electronics	2022-09-08 03:59:49.000000 UTC	17774027	62bd1a96ff03c200105701ad	200
2022-09-13	1640486	Consumer Electronics	2022-09-07 19:47:52.000000 UTC	17769406	54c35627421aa90e95616a59	225
2022-09-13	1640486	Consumer Electronics	2022-09-09 13:02:47.000000 UTC	17791859	62e6ad6dff03c2000b200ba3	250
2022-09-13	1640486	Consumer Electronics	2022-09-10 05:50:08.000000 UTC	17799570	61841697c8ce886da7fc723d	275
2022-09-13	1640486	Consumer Electronics	2022-09-10 12:32:34.000000 UTC	17799771	5d42dd06e3d460052763b8ba	300
2022-09-13	1640486	Consumer Electronics	2022-09-11 16:01:22.000000 UTC	17801888	601b714dc8ce886da83576a6	400

auction_date_transformed	auction_id	bstock_category_name	bid_date	bid_id	bidder_id	bid_amount_transfor...
2022-09-13	1640486	Consumer Electronics	2022-09-12 14:18:27.000000 UTC	17804109	62e6ad6dff03c2000b200ba3	450
2022-09-13	1640486	Consumer Electronics	2022-09-12 23:10:09.000000 UTC	17814086	54c35627421aa90e95616a59	525
2022-09-13	1640486	Consumer Electronics	2022-09-12 23:10:20.000000 UTC	17814087	54c35627421aa90e95616a59	625
2022-09-13	1640486	Consumer Electronics	2022-09-12 23:10:33.000000 UTC	17814089	54c35627421aa90e95616a59	725
2022-09-13	1640486	Consumer Electronics	2022-09-13 15:22:54.000000 UTC	17817220	62e329abff03c2000d83079d	775
2022-09-13	1640486	Consumer Electronics	2022-09-13 15:23:02.000000 UTC	17817222	62e329abff03c2000d83079d	922
2022-09-13	1640486	Consumer Electronics	2022-09-10 17:57:08.000000 UTC	17800240	60c8416bc8ce886dac91b95b	1000
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:20:14.000000 UTC	17817777	5b3e39d8e3d4600e82754909	1075
2022-09-13	1640486	Consumer Electronics	2022-09-13 15:23:10.000000 UTC	17817224	62e329abff03c2000d83079d	1111
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:12:07.000000 UTC	17817670	62e329abff03c2000d83079d	1112
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:20:26.000000 UTC	17817779	5b3e39d8e3d4600e82754909	1200
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:20:36.000000 UTC	17817788	5b3e39d8e3d4600e82754909	1300
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:20:56.000000 UTC	17817795	5b3e39d8e3d4600e82754909	1500
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:12:28.000000 UTC	17817678	62e329abff03c2000d83079d	1552
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:21:27.000000 UTC	17817817	5b3e39d8e3d4600e82754909	1650
2022-09-13	1640486	Consumer Electronics	2022-09-13 17:02:52.000000 UTC	17818767	5b3e39d8e3d4600e82754909	1725
2022-09-13	1640486	Consumer Electronics	2022-09-13 17:05:34.000000 UTC	17818847	5b3e39d8e3d4600e82754909	1800
2022-09-13	1640486	Consumer Electronics	2022-09-13 17:07:12.000000 UTC	17818906	5b3e39d8e3d4600e82754909	1875
2022-09-13	1640486	Consumer Electronics	2022-09-13 16:59:30.000000 UTC	17818639	62e329abff03c2000d83079d	2667
2022-09-13	1640487	Consumer Electronics	2022-09-07 19:35:56.000000 UTC	17769064	62e329abff03c2000d83079d	100
2022-09-13	1640487	Consumer Electronics	2022-09-08 21:47:47.000000 UTC	17789177	5d07ecfde3d4600e829de625	125
2022-09-13	1640487	Consumer Electronics	2022-09-11 01:05:18.000000 UTC	17800998	63151d27feb3d70010cac235	280



auction_date_transformed	auction_id	bstock_category_name	bid_date	bid_id	bidder_id	bid_amount_transfor...
2022-09-13	1640487	Consumer Electronics	2022-09-11 01:05:28.000000 UTC	17800999	63151d27feb3d70010cac235	450
2022-09-13	1640487	Consumer Electronics	2022-09-10 18:00:14.000000 UTC	17800248	60c8416bc8ce886dac91b95b	500
2022-09-13	1640487	Consumer Electronics	2022-09-11 01:05:39.000000 UTC	17801000	63151d27feb3d70010cac235	550
2022-09-13	1640487	Consumer Electronics	2022-09-12 14:20:45.000000 UTC	17804139	626ead6dff03c2000b200ba3	550
2022-09-13	1640487	Consumer Electronics	2022-09-13 15:49:20.000000 UTC	17817440	62e329abff03c2000d83079d	622
2022-09-13	1640488	Consumer Electronics	2022-09-07 18:59:05.000000 UTC	17767889	62a236bfff03c2000d783c74	101
2022-09-13	1640488	Consumer Electronics	2022-09-07 19:04:28.000000 UTC	17768026	54c35849421aa90e9061a6d5	150
2022-09-13	1640488	Consumer Electronics	2022-09-07 19:14:49.000000 UTC	17768394	62e329abff03c2000d83079d	151
2022-09-13	1640488	Consumer Electronics	2022-09-07 20:10:30.000000 UTC	17770075	62a236bfff03c2000d783c74	250
2022-09-13	1640488	Consumer Electronics	2022-09-07 19:46:07.000000 UTC	17769360	54c35627421aa90e95616a59	275
2022-09-13	1640488	Consumer Electronics	2022-09-08 21:45:17.000000 UTC	17789125	5d07ecfde3d4600e829de625	350
2022-09-13	1640488	Consumer Electronics	2022-09-08 21:45:26.000000 UTC	17789127	5d07ecfde3d4600e829de625	450
2022-09-13	1640488	Consumer Electronics	2022-09-08 16:29:07.000000 UTC	17776783	5e85a1d7c8ce886c846a1f51	575
2022-09-13	1640488	Consumer Electronics	2022-09-09 18:30:37.000000 UTC	17794878	5e38864ac8ce886c84610b35	625
2022-09-13	1640488	Consumer Electronics	2022-09-10 05:50:31.000000 UTC	17799571	61841697c8ce886da7fc723d	675
2022-09-13	1640488	Consumer Electronics	2022-09-08 22:07:59.000000 UTC	17789512	61659a6cc8ce886da7f6cf1f	732
2022-09-13	1640488	Consumer Electronics	2022-09-10 05:52:16.000000 UTC	17799575	61841697c8ce886da7fc723d	777
2022-09-13	1640488	Consumer Electronics	2022-09-12 22:36:36.000000 UTC	17813877	60d4ec0ac8ce886daba2f576	827
2022-09-13	1640488	Consumer Electronics	2022-09-10 14:34:00.000000 UTC	17799904	61659a6cc8ce886da7f6cf1f	832
2022-09-13	1640488	Consumer Electronics	2022-09-13 15:19:40.000000 UTC	17817184	62e329abff03c2000d83079d	865
2022-09-13	1640488	Consumer Electronics	2022-09-13 16:13:21.000000 UTC	17817690	62e329abff03c2000d83079d	922
2022-09-16	1646151	Consumer Electronics	2022-09-13 20:51:19.000000 UTC	17826581	5e38864ac8ce886c84610b35	200

```

50  /* 6. How many first-time bidders did we have in November*/
51  SET SQL_SAFE_UPDATES = 0;
52
53  UPDATE misc.abc_bids
54  SET bid_date = REPLACE(bid_date, '2022-09-1 17:22:54.000000 UTC', '2022-09-10 17:22:54.000000 UTC')
55  WHERE
56      bid_id = 16819422 AND
57      bidder_id = 1;
58
59  WITH first_time_bidders_nov AS (
60      SELECT bidder_id, MONTH(MIN(bid_date)) AS first_date
61      FROM misc.abc_bids
62      GROUP BY bidder_id
63      HAVING first_date = 11
64      ORDER BY first_date)
65
66  SELECT COUNT(*) AS total_first_time_bidders_nov
67  FROM first_time_bidders_nov;

```

total\_first\_time\_bidders\_nov



```
1  /* 7. Why would we want to measure the number of first-time bidders (over time)? */
2  WITH first_time_bidders AS (
3      SELECT bidder_id, DATE_FORMAT(MIN(bid_date), '%Y-%m') AS bid_date_month
4      FROM misc.abc_bids
5      GROUP BY bidder_id
6      ORDER BY bid_date_month)
7
8  SELECT bid_date_month, COUNT(bidder_id) AS total_first_time_bidders
9  FROM first_time_bidders
10 GROUP BY bid_date_month;
```

	bid_date_month	total_first_time_bidders
▶	2022-09	52
	2022-10	11
	2022-11	31
	2022-12	13