

RareBooksIntro

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February 2022

- 1 Return the first name, last name, contact phone of all customers, ordering the result set in ascending lexicographical order of last name.”

```
rarebooks=# select first_name, last_name, contact_phone from customer order by last_name asc;
first_name | last_name | contact_phone
-----+-----+-----
Helen      | Brown    | 518-555-7777
Mary       | Collins  | 209-555-9999
Peter      | Collins  | 209-555-1010
John       | Doe      | 209-555-3333
Jane       | Doe      | 518-555-4444
Edna       | Hayes    | 518-555-1110
Franklin   | Hayes    | 518-555-1212
Helen      | Jerry    | 209-555-8888
Peter      | Johnson  | 209-555-1313
Peter      | Johnson  | 209-555-1414
Janice     | Jones    | 518-555-1111
Jon        | Jones    | 209-555-2222
Janice     | Smith    | 518-555-6666
Jane       | Smith    | 518-555-5555
John       | Smith    | 209-555-1515
(15 rows)
```

- 2 Examine the sales data, and return the set of unique pairings of customers and the credit card numbers used to make a purchase. Order the result-set by ascending customer number.

```
rarebooks=# select distinct customer_num, credit_card_num from sale order by customer_num asc;
```

customer_num	credit_card_num
1	1234 5678 9101 1121
2	1234 5678 9101 2222
4	1234 5678 9101 5555
5	1234 5678 9101 9999
6	1234 5678 9101 7777
6	1234 5678 9101 6666
8	1234 5678 9101 8888
9	1234 5678 9101 0909
10	1234 5678 9101 0101
11	1234 5678 9101 1010
11	1234 5678 9101 1231
12	1234 5678 9101 7777

(12 rows)

- 3 Return the zip code, last name, and first name of all customers, ordering the result-set first by ascending zip code, and second by descending last name.

```
rarebooks=# select first_name, last_name, zip_postcode from customer order by zip_postcode asc, last_name desc;
```

first_name	last_name	zip_postcode
Janice	Smith	11111
Janice	Jones	11111
Franklin	Hayes	11111
Edna	Hayes	11111
Jane	Doe	11111
Helen	Brown	11111
Jane	Smith	13333
Helen	Jerry	18886
Mary	Collins	18886
Peter	Collins	18886
John	Smith	18888
Jon	Jones	18888
Peter	Johnson	18888
Peter	Johnson	18888
John	Doe	18888

(15 rows)

- 4 Return the customers who made purchases between the first of July 2021 and the first of September 2021 (inclusive). Order the result set by ascending customer id.

```
rarebooks=# select customer_num from sale where sale_date >= 'Jul-1-2021' and sale_date <= 'Sep-1-2021' order by customer_num;
customer_num
-----
1
2
2
2
5
5
6
6
8
8
10
11
11
12
(14 rows)
```

- 5 Return the isbn of all volumes involved in sale number 6.

```
rarebooks=# select isbn from volume where sale_id=6;
isbn
-----
978-1-11111-146-1
978-1-11111-122-1
978-1-11111-130-1
978-1-11111-126-1
978-1-11111-139-1
(5 rows)
```

- 6 Return the isbn of all volumes involved in sale number 6 from that sold for less than the asking price.

```
rarebooks=# select ISBN from (select * from volume where selling_price < asking_price) as modTable where sale_id=6;
ISBN
-----
978-1-11111-130-1
978-1-11111-139-1
(2 rows)
```

- 7 Return the sale id, date and amount for sales that occurred on or before June 1, 2021 as well as for sales that occurred after August 1, 2019 that totaled more than \$300. Order the result-set by increasing total sales amount.

```
parebooks=# select sale_id, sale_date, sale_total_amt from sale where sale_date <= 'Jun-1-2021' union all select sale_id, sale_date, sale_total_amt from sale where sale_date > 'Aug-1-2019' and sale_total_amt > 300 order by sale_total_amt;
```

sale_id	sale_date	sale_total_amt
2	2021-01-05	125.00
11	2020-07-10	200.00
6	2021-07-05	505.00
1	2021-10-13	510.00

(4 rows)