1. Return employee name, today's date, hire date, and months employed (months between hire date and today's date). Round to the nearest month. Sort by last name.

```
NAME         |TODAY     |HIRE_DATE |MONTHS_EMPLOYED|
-------------+----------+----------+---------------+
Sandy Black  |2021-11-09|2000-07-18| 256           |
Janis Hill   |2021-11-09|2001-09-24| 242           |
Terry Manis  |2021-11-09|2000-05-20| 258           |
Troy Mansion |2021-11-09|2003-04-12| 223           |
Jim Smith    |2021-11-09|2002-11-30| 227           |
Jane White   |2021-11-09|2001-10-22| 241           |
```

2. What is the last day of the current month? For example, if today is November 11, 2021, the result is 2021-11-30. Use the alias "Last Day of Month" for the output.

```
TODAY      |Last Day of Month|
-----------+-----------------+
2021-11-09|       2021-11-30|
```

3. Return employee name, today's date, hire date, and months employed (months between hire date and today's date). Round to two decimals. Sort by last name.

```
NAME         |TODAY     |HIRE_DATE |YEARS |
-------------+----------+----------+------+
Sandy Black  |2021-11-09|2000-07-18| 21.31|
Janis Hill   |2021-11-09|2001-09-24| 20.13|
Terry Manis  |2021-11-09|2000-05-20| 21.47|
Troy Mansion |2021-11-09|2003-04-12| 18.58|
Jim Smith    |2021-11-09|2002-11-30| 18.94|
Jane White   |2021-11-09|2001-10-22| 20.05|
```

4. Your next appointment with your dentist is six months from today. On what day will you go to the dentist? Return today's date and the date in six months. Output will vary depending on CURRENT_DATE.

```
TODAY      |APPOINTMENT|
-----------+-----------+
2021-11-09| 2022-05-09|
```

5. Your next appointment with your doctor is four months from '2021-11-30'. On what day will you go to your doctor?

```
TODAY      |APPOINTMENT|
-----------+-----------+
2021-11-30| 2022-05-31|
```

6. The professor said you have until the last day of this month to turn in your term project. What day will that be? Return today's data and the last day of the current month. Output will vary based on CURRENT_DATE.

```
TODAY     |DEADLINE  |
----------+----------+
2021-11-09|2021-11-30|
```

7. What is the date of the **Friday** after six months from today's date?

```
TODAY     |Friday Date|
----------+-----------+
2021-11-09| 2022-05-13|
```

8. Return the names and hire dates for employees. Convert the hire date to the format shown. Sort by last name.

```
NAME        |Hire date         |
------------+------------------+
Sandy Black |July 18, 2000     |
Janis Hill  |September 24, 2001|
Terry Manis |May 20, 2000      |
Troy Mansion|April 12, 2003    |
Jim Smith   |November 30, 2002 |
Jane White  |October 22, 2001  |
```

9. Return the names and hire dates for employees. Convert the hire date to the format shown. Sort by last name.

```
NAME        |Hire date                 |
------------+--------------------------+
Sandy Black |Tuesday, July 18, 2000    |
Janis Hill  |Monday, September 24, 2001 |
Terry Manis |Saturday, May 20, 2000    |
Troy Mansion|Saturday, April 12, 2003   |
Jim Smith   |Saturday, November 30, 2002|
Jane White  |Monday, October 22, 2001   |
```

10. Sandy Black, employee 25 has received a $100 a month raise. Display name, current yearly salary (monthly salary * 12), and new yearly salary. Display both salaries with commas, two decimal places, and right justified.

```
NAME        |Current Yearly Salary|New Yearly Salary|
-----------+---------------------+-----------------+
Sandy Black|      92,400.00      | 93,600.00       |
```

11. Return customer name, address, current discount, and new discount for customers in CA, NY, and SC. Customers that have not been assigned a discount (NULL) receive a new discount of ten percent. Sort by customer name.

```
CUSTOMER_NAME        |ADDRESS                           |CURRENT_DISCOUNT|NEW_DISCOUNT|
--------------------+----------------------------------+----------------+------------+
billy's toys         |5151 Mission Road San Diego, CA   |         [NULL]|       0.100|
Best Digital Products|9339 E Palmetto St Florence, SC   |          0.020|       0.020|
Big Box Digital      |2757 College Avenue San Diego, CA |         [NULL]|       0.100|
Big Box Digital      |2757 Airport Bld Columbia, SC     |         [NULL]|       0.100|
Digital Junkies      |9522 2Nd Ct Syracuse, NY          |          0.105|       0.105|
Star-Mart Store #2177|3382 Murphy Road sAn diEgo, CA    |         [NULL]|       0.100|
Technology R Us      |2342 W.250Th St New Hartford, NY  |         [NULL]|       0.100|
Worldwide Digital Inc|9119 Dumbar St Spartanburg, SC    |          0.105|       0.105|
```

12. Return customer name, address, current discount, and new discount for customers in CA, NY, and SC. Substitute N/A for customers that have not been assigned a discount (NULL). Sort by customer name.

```
CUSTOMER_NAME        |ADDRESS                           |CURRENT_DISCOUNT|DISCOUNT|
--------------------+----------------------------------+----------------+--------+
billy's toys         |5151 Mission Road San Diego, CA   |         [NULL]|     N/A|
Best Digital Products|9339 E Palmetto St Florence, SC   |          0.020|    0.02|
Big Box Digital      |2757 College Avenue San Diego, CA |         [NULL]|     N/A|
Big Box Digital      |2757 Airport Bld Columbia, SC     |         [NULL]|     N/A|
Digital Junkies      |9522 2Nd Ct Syracuse, NY          |          0.105|    0.11|
Star-Mart Store #2177|3382 Murphy Road sAn diEgo, CA    |         [NULL]|     N/A|
Technology R Us      |2342 W.250Th St New Hartford, NY  |         [NULL]|     N/A|
Worldwide Digital Inc|9119 Dumbar St Spartanburg, SC    |          0.105|    0.11|
```

13. Using the B_PRODUCTS table and CASE expression on the category code, return the category code, description, original price, and new price. New price is based on the following conditions:
    - If category code = HW, the new price is original price * 1.25
    - If category code = AP, the new price is original price * 1.50
    - If category code = SG, the new price is original price * 1.75
    - Otherwise, new price is same as old salary.

    Only return products in category codes HW, LA, SG with a new price greater than 2500.00. Sort new price descending within category code.

```
Category Code|Description                            |Original Price|New Price|
-------------+---------------------------------------+--------------+---------+
LA           |3-piece Stainless Appliance Package    |       5500.00| 8,250.00|
LA           |Stackable Washer and Dryer Combo       |       2575.00| 3,862.50|
LA           |Side-By-Side Stainless Steel Refrigerator|     2400.00| 3,600.00|
LA           |Chest Freezer                          |       1995.00| 2,992.50|
LA           |Range with Dual Fuel                   |       1695.00| 2,542.50|
SG           |Home Gym                               |       2350.00| 4,112.50|
SG           |Treadmill                              |       1475.00| 2,581.25|
```