

Task 2

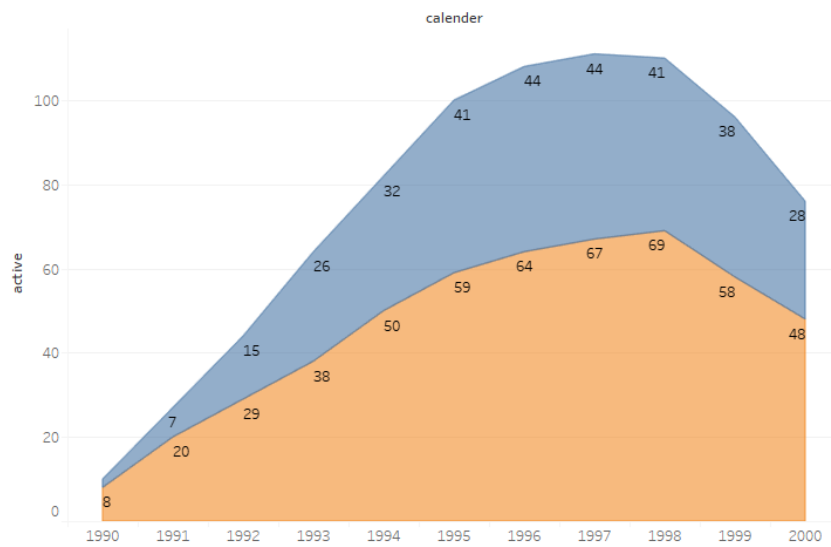
Compare the number of male managers to the number of female managers from different departments for each year, starting from 1990.

```
/*
Task 2
Compare the number of male managers to the number of female managers from different departments for each year, starting from 1990.
*/

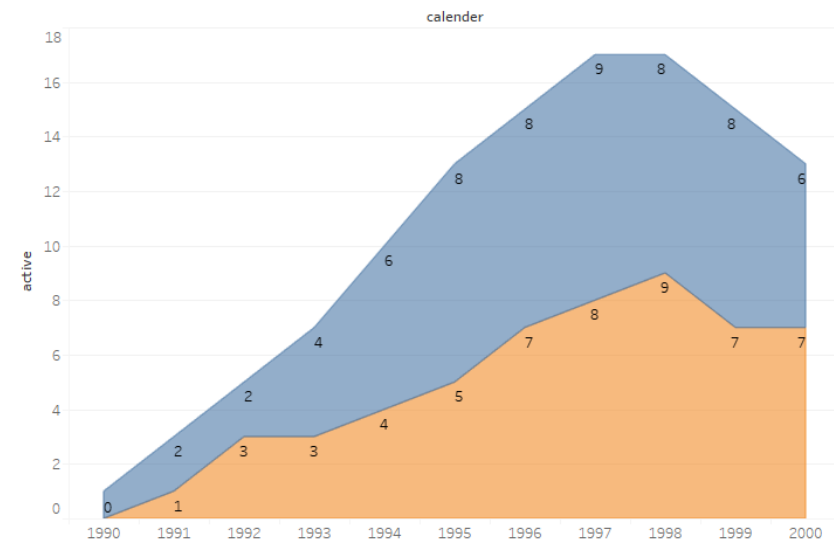
SELECT
    dp.dept_name,
    CASE
        WHEN e.gender = 'M' THEN 'Male'
        ELSE 'Female'
    END AS Gender,
    dm.emp_no,
    dm.from_date,
    dm.to_date,
    ea.calender,
    CASE
        WHEN
            YEAR(dm.to_date) >= ea.calender
            AND YEAR(dm.from_date) <= ea.calender
        THEN
            1
        ELSE 0
    END AS active
FROM
    (SELECT
        YEAR(hire_date) AS calender
    FROM
        t_employees
    GROUP BY calender) ea
    CROSS JOIN
    t_dept_manager dm
    JOIN
    t_departments dp ON dm.dept_no = dp.dept_no
    JOIN
    t_employees e ON dm.emp_no = e.emp_no
ORDER BY dm.emp_no , calender;
```

dept_name	Gender	emp_no	from_date	to_date	calender	active
Marketing	Male	110022	1995-12-30	1998-12-29	1990	0
Marketing	Male	110022	1995-12-30	1998-12-29	1991	0
Marketing	Male	110022	1995-12-30	1998-12-29	1992	0
Marketing	Male	110022	1995-12-30	1998-12-29	1993	0
Marketing	Male	110022	1995-12-30	1998-12-29	1994	0
Marketing	Male	110022	1995-12-30	1998-12-29	1995	1
Marketing	Male	110022	1995-12-30	1998-12-29	1996	1
Marketing	Male	110022	1995-12-30	1998-12-29	1997	1
Marketing	Male	110022	1995-12-30	1998-12-29	1998	1
Marketing	Male	110022	1995-12-30	1998-12-29	1999	0
Marketing	Male	110022	1995-12-30	1998-12-29	2000	0
Marketing	Male	110039	1997-04-09	9999-01-01	1990	0
Marketing	Male	110039	1997-04-09	9999-01-01	1991	0
Marketing	Male	110039	1997-04-09	9999-01-01	1992	0
Marketing	Male	110039	1997-04-09	9999-01-01	1993	0
Marketing	Male	110039	1997-04-09	9999-01-01	1994	0
Marketing	Male	110039	1997-04-09	9999-01-01	1995	0
Marketing	Male	110039	1997-04-09	9999-01-01	1996	0
Marketing	Male	110039	1997-04-09	9999-01-01	1997	1
Marketing	Male	110039	1997-04-09	9999-01-01	1998	1
Marketing	Male	110039	1997-04-09	9999-01-01	1999	1
Marketing	Male	110039	1997-04-09	9999-01-01	2000	1

Active Managers by Year at Company XYZ



Active Manager by Year at Company XYZ With Dept. Filter



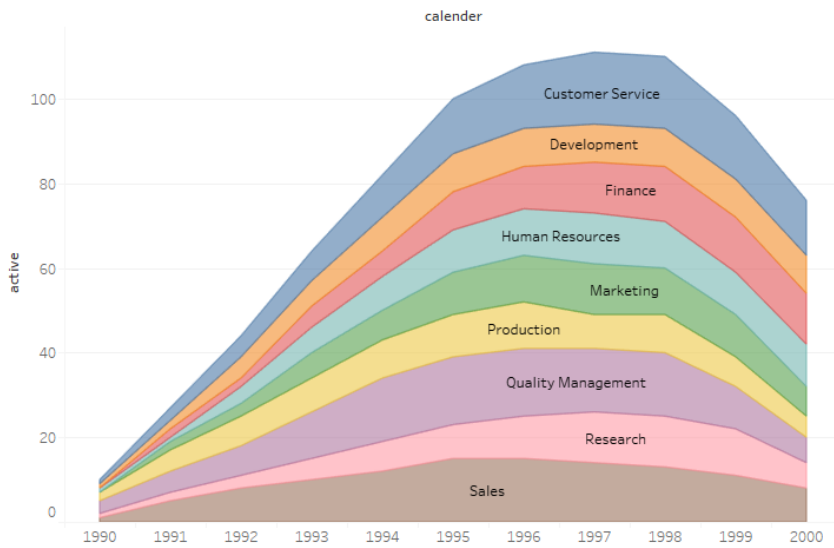
dept_name

- ☐ (All)
- ☒ Customer Service
- ☐ Development
- ☐ Finance
- ☐ Human Resources
- ☐ Marketing
- ☐ Production
- ☐ Quality Management
- ☐ Research
- ☐ Sales

Gender

- ☒ Female
- ☐ Male

Managers by Department at Company XYZ



dept_name

- ☒ Customer Service
- ☒ Development
- ☒ Finance
- ☒ Human Resources
- ☒ Marketing
- ☒ Production
- ☒ Quality Management
- ☒ Research
- ☒ Sales