

Name: Daniel Thommana SQL ASSGN 5

1) find the details of the employees who have joined before their managers.

```
mysql> select concat(E.first_name," ",E.last_name) EmpName,E.hire_date Emp_HireDate,concat(M.first_name," ",M.last_name) MngrName,M.hire_date Mngr_HireDate from employees E join employees M on M.employee_id=E.manager_id AND E.hire_date < M.hire_date;
```

| EmpName | Emp_HireDate | MngrName | Mngr_HireDate |
|------------------|--------------|------------------|---------------|
| Alexander Humold | 1990-01-03 | Lex De Haan | 1993-01-13 |
| Daniel Faviot | 1994-08-16 | Nancy Greenberg | 1994-08-17 |
| James Marlow | 1997-02-16 | Adam Fripp | 1997-04-10 |
| Renske Ladwig | 1995-07-14 | Shanta Vollman | 1997-10-10 |
| Trenna Rajs | 1995-10-17 | Kevin Mourgos | 1999-11-16 |
| Curtis Davies | 1997-01-29 | Kevin Mourgos | 1999-11-16 |
| Randall Matos | 1998-03-15 | Kevin Mourgos | 1999-11-16 |
| Peter Vargas | 1998-07-09 | Kevin Mourgos | 1999-11-16 |
| Janette King | 1996-01-30 | Karen Partners | 1997-01-05 |
| Patrick Sully | 1996-03-04 | Karen Partners | 1997-01-05 |
| Allan McEwen | 1996-08-01 | Karen Partners | 1997-01-05 |
| Lisa Ozer | 1997-03-11 | Gerald Cambrault | 1999-10-15 |
| Harrison Bloom | 1998-03-23 | Gerald Cambrault | 1999-10-15 |
| Taylor Fox | 1998-01-24 | Gerald Cambrault | 1999-10-15 |
| William Smith | 1999-02-23 | Gerald Cambrault | 1999-10-15 |
| Elizabeth Bates | 1999-03-24 | Gerald Cambrault | 1999-10-15 |
| Ellen Abel | 1996-05-11 | Eleni Zlotkey | 2000-01-29 |
| Alyssa Hutton | 1997-03-19 | Eleni Zlotkey | 2000-01-29 |
| Jonathon Taylor | 1998-03-24 | Eleni Zlotkey | 2000-01-29 |
| Jack Livingston | 1998-04-23 | Eleni Zlotkey | 2000-01-29 |
| Kimberely Grant | 1999-05-24 | Eleni Zlotkey | 2000-01-29 |
| Charles Johnson | 2000-01-04 | Eleni Zlotkey | 2000-01-29 |
| Nandita Sarchand | 1996-01-27 | Adam Fripp | 1997-04-10 |
| Alexis Bull | 1997-02-20 | Adam Fripp | 1997-04-10 |
| Sarah Bell | 1996-02-04 | Shanta Vollman | 1997-10-10 |
| Britney Everett | 1997-03-03 | Shanta Vollman | 1997-10-10 |
| Alana Walsh | 1998-04-24 | Kevin Mourgos | 1999-11-16 |
| Kevin Feeney | 1998-05-23 | Kevin Mourgos | 1999-11-16 |
| Donald OConnell | 1999-06-21 | Kevin Mourgos | 1999-11-16 |
| Jennifer Whalen | 1987-09-17 | Neena Kochhar | 1989-09-21 |

30 rows in set (0.00 sec)

2) how many employees joined in every year.

```
mysql> select date_format(hire_date,'%Y') as year, count(employee_id) as No_Of_Employees from employees group by year order by year;
```

| year | No_Of_Employees |
|------|-----------------|
| 1987 | 2 |
| 1989 | 1 |
| 1990 | 1 |
| 1991 | 1 |
| 1993 | 1 |
| 1994 | 7 |
| 1995 | 4 |
| 1996 | 10 |
| 1997 | 28 |
| 1998 | 23 |
| 1999 | 18 |
| 2000 | 11 |

12 rows in set (0.00 sec)

3) Display the complete address(including region name and country name) of every department.

```
mysql> select D.department_name,L.street_address,L.postal_code,L.city,L.state_province,C.country_name,R.region_name from departments D join locations L on L.location_id=D.location_id join countries C on C.country_id=L.country_id join regions R on R.region_id =C.region_id;
```

| department_name | street_address | postal_code | city | state_province | country_name | region_name |
|----------------------|--|-------------|---------------------|----------------|--------------------------|-------------|
| Administration | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Marketing | 147 Spadina Ave | M5V 2L7 | Toronto | Ontario | Canada | Americas |
| Purchasing | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Human Resources | 8204 Arthur St | NULL | London | NULL | United Kingdom | Europe |
| Shipping | 2011 Interiors Blvd | 99236 | South San Francisco | California | United States of America | Americas |
| IT | 2014 Jabbawocky Rd | 26192 | Southlake | Texas | United States of America | Americas |
| Public Relations | Schaanthalenstr. 7031 | 80925 | Munich | Bavaria | Germany | Europe |
| Sales | Magdalen Centre, The Oxford Science Park | OX9 9ZB | Oxford | Oxford | United Kingdom | Europe |
| Executive | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Finance | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Accounting | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Treasury | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Corporate Tax | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Control And Credit | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Shareholder Services | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Benefits | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Manufacturing | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Construction | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Contracting | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Operations | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| IT Support | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| MOC | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| IT Helpdesk | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Government Sales | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Retail Sales | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Recruiting | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |
| Payroll | 2004 Charade Rd | 98199 | Seattle | Washington | United States of America | Americas |

27 rows in set (0.00 sec)

4) find the order placed between year 2004 and 2005.

```
mysql> select orderNumber,date_format(orderDate,"%Y") orderYear from orders where date_format(orderDate,"%Y") between 2004 and 2005 ;
```

| orderNumber | orderYear |
|-------------|-----------|
| 10208 | 2004 |
| 10209 | 2004 |
| 10210 | 2004 |
| 10211 | 2004 |
| 10212 | 2004 |
| 10213 | 2004 |
| 10214 | 2004 |
| 10215 | 2004 |
| 10216 | 2004 |
| 10217 | 2004 |

| | |
|-------|------|
| 10416 | 2005 |
| 10417 | 2005 |
| 10418 | 2005 |
| 10419 | 2005 |
| 10420 | 2005 |
| 10421 | 2005 |
| 10422 | 2005 |
| 10423 | 2005 |
| 10424 | 2005 |
| 10425 | 2005 |

```
215 rows in set (0.00 sec)
```

5) Write a query to display the first day of the month (in datetime format) three months before the current month.

```
mysql> select date_add(last_day(curdate() - interval 4 month),interval 1 day) as date;
```

| date |
|------------|
| 2021-04-01 |

```
1 row in set (0.00 sec)
```

6) Write a query to display the last day of the month (in datetime format) three months before the current month.

```
mysql> select last_day(curdate() - interval 3 month) as date;
```

| date |
|------------|
| 2021-04-30 |

```
1 row in set (0.00 sec)
```

7) Write a query to get the distinct Mondays from hire_date in employees tables.

```
mysql> select distinct hire_date,date_format(hire_date,'%W') as day from employees where date_format(hire_date,'%W')='Monday' order by hire_date;
```

| hire_date | day |
|------------|--------|
| 1995-05-01 | Monday |
| 1996-03-04 | Monday |
| 1997-03-03 | Monday |
| 1997-03-10 | Monday |
| 1997-03-24 | Monday |
| 1997-12-15 | Monday |
| 1998-02-23 | Monday |
| 1998-03-23 | Monday |
| 1998-03-30 | Monday |
| 1998-04-06 | Monday |
| 1998-09-28 | Monday |
| 1999-05-24 | Monday |
| 1999-06-21 | Monday |
| 2000-01-24 | Monday |

14 rows in set (0.00 sec)

8) Write a query to get the firstname, lastname who joined in the month of June.

```
mysql> select first_name,last_name,month(hire_date) from employees where month(hire_date)=6;
```

| first_name | last_name | month(hire_date) |
|------------|-----------|------------------|
| Steven | King | 6 |
| David | Austin | 6 |
| Jason | Mallin | 6 |
| Martha | Sullivan | 6 |
| Julia | Dellinger | 6 |
| Kelly | Chung | 6 |
| Donald | OConnell | 6 |
| Susan | Mavris | 6 |
| Hermann | Baer | 6 |
| Shelley | Higgins | 6 |
| William | Gietz | 6 |

11 rows in set (0.00 sec)

9) Write a query to get the years in which more than 10 employees joined.

```
mysql> select date_format(hire_date,'%Y') as year,count(employee_id) as No_Of_Employees from employees group by year having No_Of_Employees > 10;
```

| year | No_Of_Employees |
|------|-----------------|
| 1997 | 28 |
| 1998 | 23 |
| 1999 | 18 |
| 2000 | 11 |

4 rows in set (0.00 sec)