

MySQL Assignment

1. select * from employees;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

2. select salary from employees;

salary
1700.00
1350.00
2957.00
2750.00
2550.00
3100.00
6000.00
900.00
3100.00

3. select distinct job_name from employees;

job_name
SALESMAN
MANAGER
ANALYST
PRESIDENT
CLERK

4. Select emp_name,concat('\$ ',1.15*salary) as "Salary" from employees;

emp_name	Salary
ADELYN	\$ 1955.0000
WADE	\$ 1552.5000
JONAS	\$ 3400.5500
BLAZE	\$ 3162.5000
CLARE	\$ 2932.5000
SCARLET	\$ 3565.0000
KAYLING	\$ 6900.0000
SANDRINE	\$ 1035.0000
FRANK	\$ 3565.0000

5. select concat(emp_name,';job_name) as "Employee & Job" from employees;

Employee & Job
ADELYN SALESMAN
WADE SALESMAN
JONAS MANAGER
BLAZE MANAGER
CLARE MANAGER
SCARLET ANALYST
KAYLING PRESIDENT
SANDRINE CLERK
FRANK ANALYST

6. select concat(emp_name,(';job_name,;')) as "Employee" from employees;

Employee
ADELYN(SALESMAN)
WADE(SALESMAN)
JONAS(MANAGER)
BLAZE(MANAGER)
CLARE(MANAGER)
SCARLET(ANALYST)
KAYLING(PRESIDENT)
SANDRINE(CLERK)
FRANK(ANALYST)

7. select emp_id,emp_name,salary,DATE_FORMAT(hire_date,'%M %d,%Y') as 'hire_date' from employees;

emp_id	emp_name	salary	hire_date
64989	ADELYN	1700.00	February 20,1991
65271	WADE	1350.00	February 22,1991
65646	JONAS	2957.00	April 02,1991
66928	BLAZE	2750.00	May 01,1991
67832	CLARE	2550.00	June 09,1991
67858	SCARLET	3100.00	April 19,1997
68319	KAYLING	6000.00	November 18,1991
68679	SANDRINE	900.00	December 18,1990
69062	FRANK	3100.00	December 03,1991

8. select character_length(emp_name) as 'length' from employees;

length
6
4
5
5
5
7
7
8
5

9. select emp_id,salary,commission from employees;

emp_id	salary	commission
64989	1700.00	400.00
65271	1350.00	600.00
65646	2957.00	0.00
66928	2750.00	0.00
67832	2550.00	0.00
67858	3100.00	0.00
68319	6000.00	0.00
68679	900.00	0.00
69062	3100.00	0.00

10. select distinct(job_name),dep_id from employees;

job_name	dep_id
SALESMAN	3001
MANAGER	2001
MANAGER	3001
MANAGER	1001
ANALYST	2001
PRESIDENT	1001
CLERK	2001

11. select * from employees where dep_id != 2001;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001

12. select * from employees where hire_date < '1991-01-01';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001

13. select avg(salary) from employees where job_name = 'ANALYST';

avg(salary)
3100.000000

14. select * from employees where emp_name = 'BLAZE';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001

15. select * from employees where commission > salary;
Empty set (0.00 sec)

16. select * from employees where (salary*1.25)>3000;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

17. select emp_name from employees where character_length(emp_name) = 6;

emp_name
ADELYN

18. select * from employees where date_format(hire_date,'%m') = 'jan';
Empty set (0.00 sec)

19. select concat(e.emp_name," works for ",m.emp_name) as "?column?" from employees e join employees m on e.emp_id = m.manager_id;

?column?
BLAZE works for ADELYN
BLAZE works for WADE
KAYLING works for JONAS
KAYLING works for BLAZE
KAYLING works for CLARE
JONAS works for SCARLET
FRANK works for SANDRINE
JONAS works for FRANK

20. select * from employees where job_name = 'clerk';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001

21. select * from employees where 2022 - date_format(hire_date,'%Y') > 27;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

or

21. select * from employees where TIMESTAMPDIFF(YEAR, hire_date, CURDATE())>27;

22. select * from employees where salary<3500;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

23. select emp_name,job_name,salary from employees where job_name = 'ANALYST';

emp_name	job_name	salary
SCARLET	ANALYST	3100.00
FRANK	ANALYST	3100.00

24. select * from employees where date_format(hire_date,'%Y') = 1991;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

25. select emp_id,emp_name,hire_date,salary from employees where hire_date<'1991-04-01';

emp_id	emp_name	hire_date	salary
64989	ADELYN	1991-02-20	1700.00
65271	WADE	1991-02-22	1350.00
68679	SANDRINE	1990-12-18	900.00

26. select emp_name,job_name from employees where manager_id = 0;

emp_name	job_name
KAYLING	PRESIDENT

27. select * from employees where hire_date = '1991-05-01';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001

28. select emp_id,emp_name,salary,TIMESTAMPDIFF(YEAR,hire_date,CURDATE()) as 'Experience' from employees where manager_id = 68319;

emp_id	emp_name	salary	Experience
65646	JONAS	2957.00	31
66928	BLAZE	2750.00	31
67832	CLARE	2550.00	31

29. select emp_id,emp_name,salary,TIMESTAMPDIFF(MONTH,hire_date,CURDATE()) as 'Experience' from employees where (salary/30)>100;

emp_id	emp_name	salary	Experience
67858	SCARLET	3100.00	303
68319	KAYLING	6000.00	368
69062	FRANK	3100.00	368

30. select emp_name from employees where date_format(hire_date,'%Y')+8 > 1999;

emp_name
SCARLET

31. select * from employees where (salary%2)!=0;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001

32. select * from employees where salary<1000;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001

33. select * from employees where date_format(hire_date,'%M') = 'April';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001

34. select * from employees where date_format(hire_date,'%d') < 19;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

35. select * from employees where TIMESTAMPDIFF(MONTH,hire_date,CURDATE())>8 and job_name = 'SALESMAN';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001

36. select * from employees where (dep_id = 3001 or dep_id = 1001) and DATE_FORMAT(hire_date,'%Y') = 1991;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001

37. select * from employees where dep_id = 2001 or dep_id = 1001;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

38. select * from employees where job_name = 'CLERK' and dep_id = 2001;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001

39. select emp_id,emp_name,salary,job_name from employees where job_name = 'SALESMAN' and dep_id = 3001 and salary > commission and (salary+commission) < 3400;

emp_id	emp_name	salary	job_name
64989	ADELYN	1700.00	SALESMAN
65271	WADE	1350.00	SALESMAN

40. select * from employees where job_name in ('CLERK','MANAGER');

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001

41. select * from employees where DATE_FORMAT(hire_date,'%M') != 'February';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

42. select * from employees where DATE_FORMAT(hire_date,'%Y') = 1991;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

43. select * from employees where hire_date>='1991-06-01';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

44. select * from employees where (12*salary) between 24000 and 50000;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

45. select * from employees where hire_date in ('1991-05-01','1991-02-20','1991-12-03');

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

46. select * from employees where manager_id in (63679,68319,66564,69000);

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	0.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001

47. select * from employees where hire_date>='1991-07-01';

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00	0.00	2001
68319	KAYLING	PRESIDENT	0	1991-11-18	6000.00	0.00	1001
69062	FRANK	ANALYST	65646	1991-12-03	3100.00	0.00	2001

48. select * from employees where DATE_FORMAT(hire_date,'%Y') = 1990;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
68679	SANDRINE	CLERK	69062	1990-12-18	900.00	0.00	2001

49. select * from employees where job_name = 'MANAGER' and dep_id in (1001,2001);

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	0.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	0.00	2001

50. select * from employees where DATE_FORMAT(hire_date,'%M') = 'February' and salary between 1001 and 2000;

emp_id	emp_name	job_name	manager_id	hire_date	salary	commission	dep_id
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001