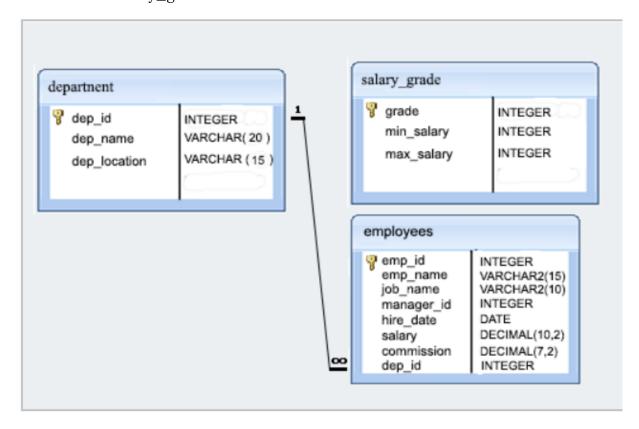
SQL

- Install SQL Server.
- Create database & 3 tables
 - Employees
 - o Departments
 - o Salary_grade



68319	KAYLING	PRESIDENT		1991-11-18	6000.00		1001	
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00		3001	
67832	CLARE	MANAGER	68319	1991-06-09	2550.00		1001	
65646	JONAS	MANAGER	68319	1991-04-02	2957.00		2001	
67858	SCARLET	ANALYST	65646	1997-04-19	3100.00		2001	
69062	FRANK	ANALYST	65646	1991-12-03	3100.00		2001	
63679	SANDRINE	CLERK	69062	1990-12-18	900.00		2001	
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001	
65271	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00	3001	
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001	
68454	TUCKER	SALESMAN	66928	1991-09-08	1600.00	0.00	3001	
68736	ADNRES	CLERK	67858	1997-05-23	1200.00		2001	
69000	JULIUS	CLERK	66928	1991-12-03	1050.00		3001	
69324	MARKER	CLERK	67832	1992-01-23	1400.00		1001	

1. From the above table return complete information about the employees.

			manager_id			
						1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	2001

2. From the table, write a SQL query to find the salaries of all employees. Return salary.

Sample Output:

```
salary
------
6000.00
2750.00
2550.00
2957.00
```

3. From the table, write a SQL query to find the unique designations of the employees. Return job name.

Sample Output:

```
job_name
-----
CLERK
SALESMAN
MANAGER
PRESIDENT
ANALYST
(5 rows)
```

4. From the following table, write a SQL query to list the employees' names, increase their salary by 15%, and express the number of Dollars.

```
emp_name | Salary

KAYLING | $ 6,900

BLAZE | $ 3,163

CLARE | $ 2,933

JONAS | $ 3,401

SCARLET | $ 3,565

....
```

5. From the following table, write a SQL query to list the employee's name and job name as a format of "Employee & Job".

```
Employee & Job

KAYLING PRESIDENT
BLAZE MANAGER
CLARE MANAGER
JONAS MANAGER
SCARLET ANALYST
```

Sample Output:

6. From the following table, write a SQL query to find those employees with a hire date in the format like February 22, 1991. Return employee ID, employee name, salary, hire date.

emp_id	emp_name	salary	to_c	har
68319	KAYLING	6000.00	NOVEMBER	18,1991
66928	BLAZE	2750.00	MAY	01,1991
67832	CLARE	2550.00	JUNE	09,1991
65646	JONAS	2957.00	APRIL	02,1991
67858	SCARLET	3100.00	APRIL	19,1997

7. From the following table, write a SQL query to count the number of characters except the spaces for each employee name. Return employee name length.

```
length
-----
7
5
5
7
7
```

8. From the following table, write a SQL query to find the employee ID, salary, and commission of all the employees.

9. From the following table, write a SQL query to find the unique department with jobs. Return department ID, Job name.

```
dep_id | job_name

3001 | MANAGER

2001 | ANALYST

3001 | SALESMAN

1001 | MANAGER

1001 | PRESIDENT

...
```

10. From the following table, write a SQL query to find those employees who do not belong to the department 2001. Return complete information about the employees. (Using **NOT IN**)

	. —		manager_id +	_		commission	–
							1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00		3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00		1001
64989	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00	3001

11. From the following table, write a SQL query to find those employees who joined before 1991. Return complete information about the employees.

12. From the following table, write a SQL query to compute the average salary of those employees who work as 'ANALYST'. Return average salary.

13. From the following table, write a SQL query to find the details of the employee 'BLAZE'.

14. From the following table, write a SQL query to find those employees whose salary exceeds 3000 after giving a 25% increment. Return complete information about the employees.

			manager_id			
	•	•			•	1001
66928	BLAZE	MANAGER	68319	1991-05-01	2750.00	3001
67832	CLARE	MANAGER	68319	1991-06-09	2550.00	1001
65646	JONAS	MANAGER	68319	1991-04-02	2957.00	2001

15. From the following table, write a SQL query to find those employees who joined in the month January. Return complete information about the employees.

16. From the following table, write a SQL query to find those employees who joined before 1st April 1991. Return employee ID, employee name, hire date and salary.

```
emp_id | emp_name | hire_date | salary

63679 | SANDRINE | 1990-12-18 | 900.00

64989 | ADELYN | 1991-02-20 | 1700.00

65271 | WADE | 1991-02-22 | 1350.00

(3 rows)
```

17. From the following table, write a SQL query to find the name and salary of the employee FRANK. Salary should be equal to the maximum salary within his or her salary group.(Using **Between**)

Sample table: salary grade

Sample Output:

18. From the following table, write a SQL query to list all the employees except PRESIDENT and MANAGER in ascending order of salaries. Return complete information about the employees. (Using **Order By**)

			manager_id				
	SANDRINE			1990-12-18			2001
69000	JULIUS	CLERK	66928	1991-12-03	1050.00		3001
68736	ADNRES	CLERK	67858	1997-05-23	1200.00		2001
66564	MADDEN	SALESMAN	66928	1991-09-28	1350.00	1500.00	3001

19. From the following table, write a SQL query to find the highest salary. Return the highest salary.

Sample Output:

```
max
------
6000.00
(1 row)
```

20. From the table, write a SQL query to find the average salary and average total remuneration (salary and commission) for each type of job. Return name, average salary and average total remuneration. (Using **GROUP BY**)

Sample Output:

job_name	avg	avg
CLERK SALESMAN MANAGER PRESIDENT ANALYST (5 rows)	1137.5000000000000000000000000000000000000	 2125.0000000000000000000

21. From the following table, write a SQL query to find those employees who work in the department ID 1001 or 2001. Return employee ID, employee name, department ID, department location, and department name.(Using **IN** clause)

Sample table: department

```
1001 | FINANCE | SYDNEY
2001 | AUDIT | MELBOURNE
3001 | MARKETING | PERTH
4001 | PRODUCTION | BRISBANE
(4 rows)
```

Sample Output:

22. From the table, write a SQL query to list the managers and number of employees work under them. Sort the result set in ascending order on manager. Return manager ID and number of employees under them.(Using **GROUP BY & ORDER BY**)

Sample Output:

23. From the table, write a SQL query to find those departments where at least two employees work. Return department id, number of employees.(**GROUP BY** & **HAVING**)

24. From the table, write a SQL query to find those employees whose names contain the character set 'AR' together. Return complete information about the employees. (using 'like')

Sample Output:

67832 CLARE MANAGER 68319 1991-06-09 2550.00 1001 67858 SCARLET ANALYST 65646 1997-04-19 3100.00 2001 69324 MARKER CLERK 67832 1992-01-23 1400.00 1001				manager_id	_		
	67832	CLARE	MANAGER	68319	1991-06-09	2550.00	1001

25. Add a column for "Gender" in the employee table and update each row accordingly.