EMPLOYEES

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY
100	Steven	King	SKING	515.123.4567	17.06.87	AD_PRES	24000
101	Neena	Kochhar	NKOCHAR	515.123.4568	21.09.89	AD_VP	17000
102	Lex	De Haan	LDEHAAN	515.123.4569	13.03.93	AD_VP	17000
103	Alexander	Hunold	AHUNOLD	590.423.4567	03.01.90	IT_PROG	9000
104	Bruce	Ernst	BERNST	590.423.4568	21.05.91	IT_PROG	6000
107	Diana	Lorentz	DLORENTZ	590.423.5567	07.02.99	IT_PROG	4200
124	Kevin	Mourgos	KNOURGOS	650.123.5234	16.11.99	SH_MAN	5800
141	Trenna	Rajs	TRAJS	650.121.8009	17.10.95	SH_CLERK	3500
142	Curtis	Davies	CDAVIES	650.121.2994	29.01.97	SH_CLERK	3100
143	Randall	Matos	RMATOS	650.121.2874	15.03.98	SH_CLERK	2600
144	Peter	Vargas	PVARGAS	650.121.2004	09.07.98	SH_CLERK	2500
149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	29.01.00	SA_MAN	10500
174	Ellen	Abel	EABEL	011.44.1644.429267	11.05.96	SA_REP	11000
176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	24.03.98	SA_REP	8600
178	Kimberely	Grant	KGRANT	011.44.1644.429263	24.05.99	SA_REP	7000
200	Jennifer	Whalen	JWHALEN	515.123.4444	17.09.87	AD_ASST	4400
201	Michael	Hartstein	MHARTSTE	515.123.5555	17.02.96	MK_MAN	13000
202	Pat	Fay	PFAY	603.123.6666	17.08.97	MK_REP	6000
205	Shelley	Higgins	SHIGGINS	515.123.8080	07.06.94	AC_MGR	12000
206	William	Gietz	WGIETZ	515.123.8181	07.06.94	AC_ACCOUNT	8300

DEPARTMENTS

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
50	Shipping	124	1500
60	IT	103	1400
80	Sales	149	2500
90	Executive	100	1700
110	Accounting	205	1700
190	Contracting		1700

JOB_GRADES

GRA	LOWEST_SAL	HIGHEST_SAL
A	1000	2999
B	3000	5999
C	6000	9999
D	10000	14999
E	15000	24999
F	25000	40000

1. The Human Resources (HR) department needs data including id, first name, last name, hiring date and salaries of all employees.

2. Write a query to display id, first names, last names, email, annual salaries of all employees.

3. The Human Resources (HR) department requests data for all unique jobs from the EMPLOYEES table. Job IDs should not be repeated in the output.

4. Due to funding problems, the HR department needs a report that provides all the information about the programmers whose salaries are over 5000.

5. Generate a report to display the id, last name, first name, and job title of all employees whose salaries range from 4000 to 7000.

6. The HR department needs data on high-paid and low-paid employees. Write a query to display the last names, first names, and salaries of all employees whose salaries are outside the range from 3000 to 9000.

7. Write a query to display id, last names, first names, annual salaries of those employees whose salaries are below 10000.

8. Write a query to display id, last names, salaries of those employees whose salaries are in the range from 4000 to 7000 using the BETWEEN ... AND command and explain the difference between this task and task #5.

9. Write a query to display id, last names, salaries, job title from the list of id «144, 102, 200, 205».

10. Write a query to display id, last names, salaries, job title not from the list of id «144, 102, 200, 205».

11. Write a query to display id, last names, first names, salaries of those employees whose names begin with the letter D.

12. Write a query to display all the names of employees in which the third letter is A.

13. Write a query to display id, last names, names, email, salaries of those employees whose names end with a letter N.

14. Write a query to display id, last names, email, salaries of all employees, sorting their salaries in ascending order.

15. Write a query to display id, last names, first names, salaries of all employees, sorting their id in descending order.

16. Write a query to display the average, maximum, minimum and the sum of all programmers' salaries.

17. Write a query to display the number of programmers.

18. Write a query to display the number of unique professions.

19. Sum the salaries in the EMPLOYEES table for each job title.

20. Find the average salaries in the EMPLOYEES table for each job title.

21. Find the maximum salaries in the EMPLOYEES table for each job title that exceed 10,000 and sort them in descending order.

22. Find the maximum average salary for each job title.

23. Receive a report for each employee in the following form: "last name" earns "salary" per month, but wants "triple salary". Name the column Dream Salaries.

24. Write a query to display the last name, first name and the number of letters in the first name of employees.

25. Write a query to display the full names of employees (last name + first name), separated by only one space, into a common column and name it "Employee_name".

26. Write a query to display the first three letters in the last names of employees.

27. Write a query to display the letters in the first names of employees in reverse order.

28. Replace "en" characters in the first names of employees with "yu" characters.

29. Convert all letters in the last names of employees to uppercase.

30. Your query.