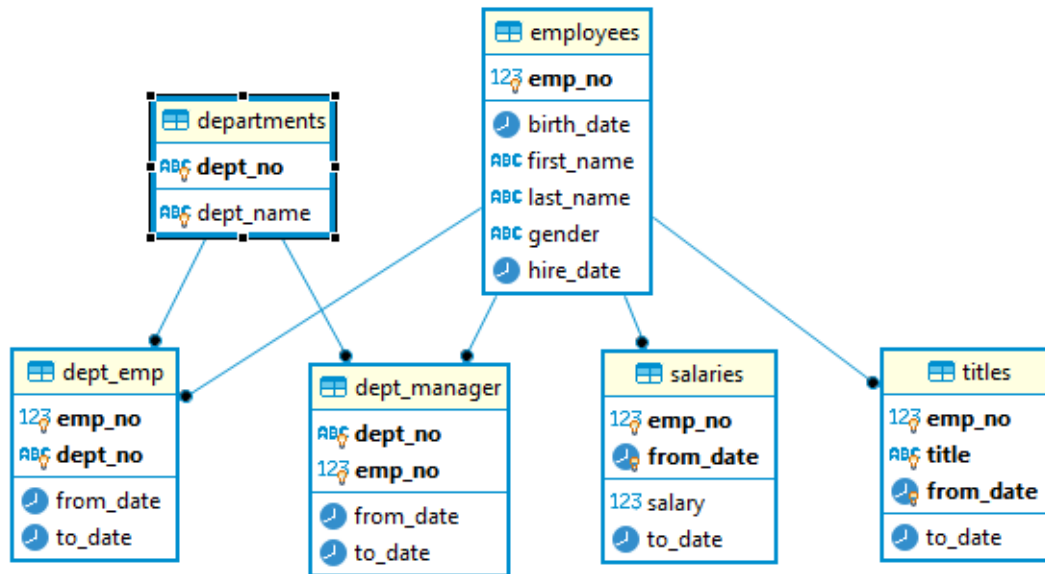


# 1. Примеры SQL запросов для учебной базы данных employees

ER диаграмма employees



SQL запросы

1. Выбрать среднюю зарплату по отделам.

```
SELECT d.dept_name, ROUND(AVG(s.salary), 0) AS avg_salary
FROM departments d
LEFT JOIN dept_manager m ON d.dept_no = m.dept_no
LEFT JOIN employees e ON m.emp_no = e.emp_no
LEFT JOIN salaries s ON e.emp_no = s.emp_no
WHERE s.to_date > CURDATE()
GROUP BY d.dept_name ORDER BY avg_salary;
```

	dept_name	avg_salary
1	Customer Service	65 573
2	Production	67 838
3	Human Resources	72 315
4	Development	73 707
5	Quality Management	79 032
6	Finance	85 950
7	Research	91 319
8	Sales	98 930
9	Marketing	107 449

2. Выбрать максимальную зарплату у сотрудника.

```
SELECT CONCAT(e.first_name, ' ', e.last_name) name, MAX(s.salary) max_salary
FROM employees e
JOIN salaries s ON e.emp_no = s.emp_no
GROUP BY name;
```

	ABC name	123 max_salary
1	Georgi Facello	88 958
2	Bezalel Simmel	72 527
3	Parto Bamford	43 699
4	Chirstian Koblick	74 057
5	Kyoichi Maliniak	94 692
6	Anneke Preusig	60 098
7	Tzvetan Zielinski	88 070
8	Saniya Kalloufi	52 668
9	Sumant Peac	94 443
10	Duangkaew Piveteau	80 324
11	Mary Sluis	56 753

3. Удалить одного сотрудника, у которого максимальная зарплата.

```
DELETE FROM employees e
WHERE emp_no = (SELECT emp_no FROM salaries ORDER BY salary DESC LIMIT 1);
```

4. Найти количество сотрудников в отделах и посмотреть, сколько всего денег получает отдел.

```
SELECT d.dept_name, COUNT(de.emp_no) employees_qty, SUM(s.salary)
salaries_total
FROM dept_emp de
LEFT JOIN departments d ON de.dept_no = d.dept_no
LEFT JOIN employees e ON de.emp_no = e.emp_no
LEFT JOIN salaries s ON e.emp_no = s.emp_no
WHERE de.to_date > CURDATE() AND s.to_date > CURDATE()
GROUP BY d.dept_name
ORDER BY salaries_total;
```

	ABC dept_name	123 employees_qty	123 salaries_total
1	Human Resources	12 898	824 464 664
2	Quality Management	14 546	951 919 236
3	Finance	12 437	977 049 936
4	Research	15 441	1 048 650 423
5	Customer Service	17 569	1 182 134 209
6	Marketing	14 842	1 188 233 434
7	Sales	37 697	3 349 220 074
8	Production	53 304	3 616 319 369
9	Development	61 386	4 153 249 050