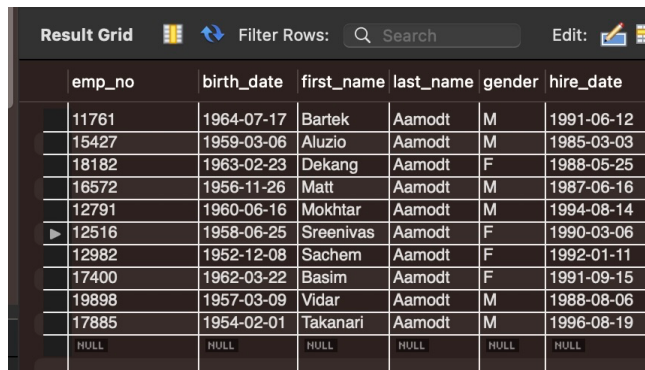


## Employees osa 2

a)

```
SELECT * FROM employees ORDER BY last_name LIMIT 10;
```

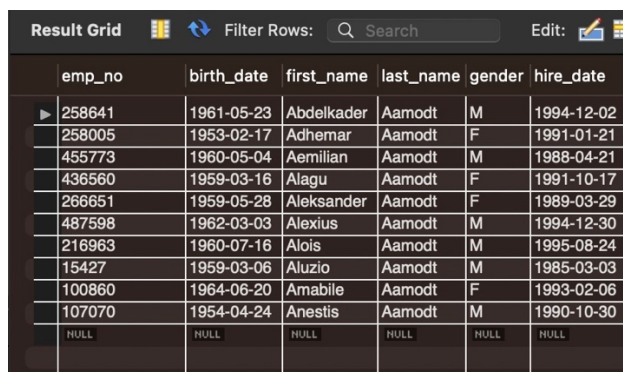


Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
11761	1964-07-17	Bartek	Aamodt	M	1991-06-12
15427	1959-03-06	Aluzio	Aamodt	M	1985-03-03
18182	1963-02-23	Dekang	Aamodt	F	1988-05-25
16572	1956-11-26	Matt	Aamodt	M	1987-06-16
12791	1960-06-16	Mokhtar	Aamodt	M	1994-08-14
12516	1958-06-25	Sreenivas	Aamodt	F	1990-03-06
12982	1952-12-08	Sachem	Aamodt	F	1992-01-11
17400	1962-03-22	Basim	Aamodt	F	1991-09-15
19898	1957-03-09	Vidar	Aamodt	M	1988-08-06
17885	1954-02-01	Takanari	Aamodt	M	1996-08-19
NULL	NULL	NULL	NULL	NULL	NULL

b)

```
SELECT * FROM employees ORDER BY last_name, first_name LIMIT 10;
```

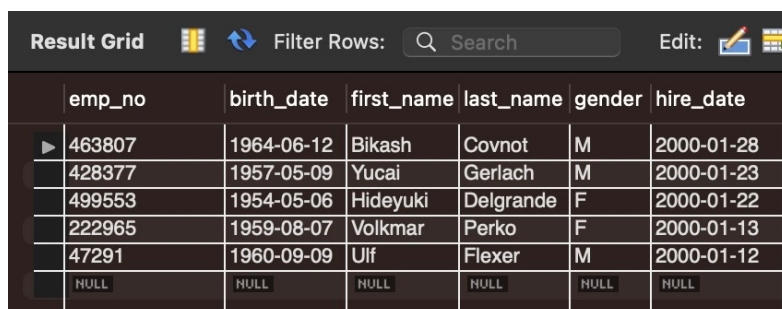


Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
258641	1961-05-23	Abdelkader	Aamodt	M	1994-12-02
258005	1953-02-17	Adhemar	Aamodt	F	1991-01-21
455773	1960-05-04	Aemilian	Aamodt	M	1988-04-21
436560	1959-03-16	Alagu	Aamodt	F	1991-10-17
266651	1959-05-28	Aleksander	Aamodt	F	1989-03-29
487598	1962-03-03	Alexius	Aamodt	M	1994-12-30
216963	1960-07-16	Alois	Aamodt	M	1995-08-24
15427	1959-03-06	Aluzio	Aamodt	M	1985-03-03
100860	1964-06-20	Amabile	Aamodt	F	1993-02-06
107070	1954-04-24	Anestis	Aamodt	M	1990-10-30
NULL	NULL	NULL	NULL	NULL	NULL

c)

```
SELECT * FROM employees ORDER BY hire_date DESC LIMIT 5;
```



Result Grid

emp_no	birth_date	first_name	last_name	gender	hire_date
463807	1964-06-12	Bikash	Covnot	M	2000-01-28
428377	1957-05-09	Yucai	Gerlach	M	2000-01-23
499553	1954-05-06	Hideyuki	Delgrande	F	2000-01-22
222965	1959-08-07	Volkmar	Perko	F	2000-01-13
47291	1960-09-09	Ulf	Flexer	M	2000-01-12
NULL	NULL	NULL	NULL	NULL	NULL

d)

```
SELECT * FROM employees JOIN salaries ON employees.emp_no=salaries.emp_no WHERE (to_date='9999-01-01') ORDER BY salary DESC ;
```

emp_no	birth_date	first_name	last_name	gender	hire_date	emp_no	salary	from_date	to_date
43624	1953-11-14	Tokuyasu	Pesch	M	1985-03-26	43624	158220	2002-03-22	9999-01-01
254466	1963-05-27	Honesty	Mukaidono	M	1986-08-08	254466	156286	2001-08-04	9999-01-01
47978	1956-03-24	Xiahua	Whitcomb	M	1985-07-18	47978	155709	2002-07-14	9999-01-01
253939	1957-12-03	Sanjai	Luders	M	1987-04-15	253939	155513	2002-04-11	9999-01-01
109334	1955-08-02	Tsutomu	Alameldin	M	1985-02-15	109334	155190	2002-02-11	9999-01-01
80823	1963-01-21	Willard	Baca	M	1985-02-26	80823	154459	2002-02-22	9999-01-01
493158	1961-05-20	Lidong	Meriste	M	1987-05-09	493158	154376	2002-05-05	9999-01-01
205000	1956-01-14	Charmane	Griswold	M	1990-06-23	205000	153715	2001-10-09	9999-01-01
266526	1957-02-14	Weijing	Chenoweth	F	1986-10-08	266526	152710	2001-10-04	9999-01-01
237542	1954-10-05	Weicheng	Hatcliff	F	1985-04-12	237542	152687	2002-04-08	9999-01-01
276633	1954-01-27	Shin	Birdsall	M	1987-10-08	276633	152412	2001-10-04	9999-01-01
238117	1959-06-21	Mitsuyuki	Stanfel	M	1988-01-03	238117	152220	2001-12-30	9999-01-01

Tokuyasu Pesch:llä on suurin palkka tällä hetkellä.

e) SELECT \* FROM employees JOIN salaries ON employees.emp\_no=salaries.emp\_no WHERE (to\_date='9999-01-01') ORDER BY salary ;

emp_no	birth_date	first_name	last_name	gender	hire_date	emp_no	salary	from_date	to_date
253496	1953-09-23	Olivera	Baek	M	1984-07-04	253496	38023	2002-02-20	9999-01-01
245832	1953-04-24	Phasol	Liah	F	1988-01-06	245832	38036	2002-05-30	9999-01-01
401786	1957-10-31	Sachar	Nicolson	M	1989-04-09	401786	38042	2001-11-02	9999-01-01
15830	1963-10-22	Yurij	Narwekar	M	1993-09-14	15830	38012	2002-03-12	9999-01-01
230890	1953-03-07	Oldrich	Schmiadel	M	1999-06-05	230890	38036	2001-12-12	9999-01-01
466226	1955-11-12	Charluca	Talmer	M	1985-02-16	466226	38117	2003-02-22	9999-01-01
81788	1959-02-23	Marie	Marrachi	M	1992-03-20	81788	38186	2002-01-19	9999-01-01
496848	1961-04-05	Xiaopeng	Piancastelli	F	1989-11-13	496848	38227	2002-06-06	9999-01-01
245492	1954-02-27	Angus	Schlumberger	M	1998-04-01	245492	38264	2002-01-30	9999-01-01
85682	1963-05-02	Vidar	Turnbull	M	1999-05-07	85682	38285	2002-05-06	9999-01-01
262913	1958-11-11	Moly	Ochev	M	1989-12-03	262913	38339	2001-09-24	9999-01-01
52559	1959-07-11	Ewing	Hayera	M	1988-07-19	52559	38346	2002-06-18	9999-01-01

Pienin palkka tällä hetkellä on Olivera Baek:lla.

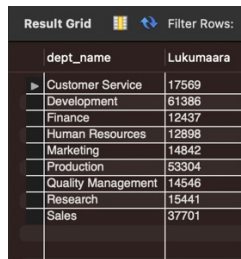
f)

```
SELECT * FROM employees JOIN salaries ON employees.emp_no=salaries.emp_no WHERE (salary>'150000') AND (to_date='9999-01-01') ORDER BY salary ;
```

emp_no	birth_date	first_name	last_name	gender	hire_date	emp_no	salary	from_date	to_date
66793	1964-05-15	Lansing	Kambil	M	1985-06-20	66793	150052	2002-06-16	9999-01-01
46439	1953-01-31	Ibibia	Junet	M	1985-05-20	46439	150345	2002-05-15	9999-01-01
279776	1955-05-06	Mohamm...	Moehrke	M	1986-06-10	279776	150740	2002-06-06	9999-01-01
238117	1959-06-21	Mitsuyuki	Stanfel	M	1988-01-03	238117	152220	2001-12-30	9999-01-01
276633	1954-01-27	Shin	Birdsall	M	1987-10-08	276633	152412	2001-10-04	9999-01-01
237542	1954-10-05	Weicheng	Hatcliff	F	1985-04-12	237542	152687	2002-04-08	9999-01-01
266526	1957-02-14	Weijing	Chenoweth	F	1986-10-08	266526	152710	2001-10-04	9999-01-01
205000	1956-01-14	Charmane	Griswold	M	1990-06-23	205000	153715	2001-10-09	9999-01-01
493158	1961-05-20	Lidong	Meriste	M	1987-05-09	493158	154376	2002-05-05	9999-01-01
80823	1963-01-21	Willard	Baca	M	1985-02-26	80823	154459	2002-02-22	9999-01-01
109334	1955-08-02	Tsutomu	Alameldin	M	1985-02-15	109334	155190	2002-02-11	9999-01-01
253939	1957-12-03	Sanjai	Luders	M	1987-04-15	253939	155513	2002-04-11	9999-01-01
47978	1956-03-24	Xiahua	Whitcomb	M	1985-07-18	47978	155709	2002-07-14	9999-01-01
254466	1963-05-27	Honesty	Mukaidono	M	1986-08-08	254466	156286	2001-08-04	9999-01-01
43624	1953-11-14	Tokuyasu	Pesch	M	1985-03-26	43624	158220	2002-03-22	9999-01-01

g)

```
SELECT dept_name, COUNT(*) AS Lukumaara FROM departments
JOIN dept_emp ON departments.dept_no=dept_emp.dept_no
JOIN employees ON employees.emp_no=dept_emp.emp_no
WHERE (to_date='9999-01-01')
GROUP BY dept_name;
```



The screenshot shows a 'Result Grid' window with a table containing two columns: 'dept\_name' and 'Lukumaara'. The table lists ten departments and their corresponding counts.

dept_name	Lukumaara
Customer Service	17569
Development	61386
Finance	12437
Human Resources	12898
Marketing	14842
Production	53304
Quality Management	14546
Research	15441
Sales	37701

h)

```
SELECT first_name,last_name,dept_name FROM employees
JOIN dept_manager ON employees.emp_no=dept_manager.emp_no
JOIN departments ON dept_manager.dept_no=departments.dept_no
WHERE (to_date='9999-01-01');
```



The screenshot shows a 'Result Grid' window with a table containing three columns: 'first\_name', 'last\_name', and 'dept\_name'. The table lists ten employees and their respective departments.

first_name	last_name	dept_name
Vishwani	Minakawa	Marketing
Isamu	Legleitner	Finance
Karsten	Sigstam	Human Resources
Oscar	Ghazalie	Production
Leon	DasSarma	Development
Dung	Pesch	Quality Management
Hauke	Zhang	Sales
Hillary	Kambil	Research
Yuchang	Weedman	Customer Service

i)

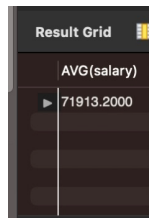
```
SELECT AVG(salary) FROM salaries
JOIN dept_emp ON salaries.emp_no=dept_emp.emp_no
JOIN departments ON dept_emp.dept_no=departments.dept_no
WHERE(dept_name='Sales');
```



The screenshot shows a 'Result Grid' window with a table containing one column: 'AVG(salary)'. The table shows the average salary for the Sales department.

AVG(salary)
80667.6058

```
SELECT AVG(salary) FROM salaries
JOIN dept_emp ON salaries.emp_no=dept_emp.emp_no
JOIN departments ON dept_emp.dept_no=departments.dept_no
WHERE(dept_name='Marketing');
```



A screenshot of a database result grid. The grid has a dark background with light text. The title 'Result Grid' is at the top left. Below it, the column header 'AVG(salary)' is centered. The first row of data shows the value '71913.2000'.

AVG(salary)
71913.2000