

1.

```
85 -- List the employee number, last name, first name, sex, and salary of each employee (2 points)
86 Select
87     e.emp_no,
88     e.last_name,
89     e.first_name,
90     e.sex,
91     s.salary
92 FROM
93     employees e
94     join salaries s on e.emp_no = s.emp_no
95 ORDER by
96     e.last_name asc,
97     s.salary desc;
```

Data Output Messages Notifications

	emp_no integer	last_name character varying (200)	first_name character varying (150)	sex character varying (2)	salary integer
1	292102	Aamodt	Hidetomi	M	101114
2	67277	Aamodt	Teiji	F	100414
3	492546	Aamodt	Elzbieta	F	93965
4	422538	Aamodt	Matk	M	93473
5	105020	Aamodt	Mostafa	F	92903
6	42199	Aamodt	Mats	F	90455
7	294575	Aamodt	Parke	M	89042
8	452757	Aamodt	Gaetan	M	88221
9	240207	Aamodt	Jlann	F	87834
10	280448	Aamodt	Theron	M	87465
11	428594	Aamodt	Breannda	M	87334
12	99276	Aamodt	Takanari	M	85243
13	36585	Aamodt	Menkae	F	84039
14	433338	Aamodt	Gian	M	81659
15	19898	Aamodt	Vidar	M	81410
16	59858	Aamodt	Tristan	M	79245

2.

```
98
99 -- List the first name, last name, and hire date for the employees who were hired in 1986
100
101 Select
102     e.first_name,
103     e.last_name,
104     e.hire_date
105 from
106     employees e
107 Where
108     EXTRACT(YEAR FROM e.hire_date) = 1986
109 Order by
110     e.last_name asc,
111     e.hire_date desc;
```

113 --list the department number for each employee along with that employee's employee number, las

Data Output Messages Notifications

	first_name character varying (150)	last_name character varying (200)	hire_date date
1	Basant	Aamodt	1986-12-25
2	Huican	Aamodt	1986-12-12
3	Dietrich	Aamodt	1986-12-07
4	Kazuhiro	Aamodt	1986-12-02
5	Arvind	Aamodt	1986-11-20
6	Parke	Aamodt	1986-11-04
7	Danco	Aamodt	1986-10-10
8	Valeri	Aamodt	1986-07-28
9	Luise	Aamodt	1986-07-27
10	Jaldeep	Aamodt	1986-07-16
11	Foong	Aamodt	1986-06-28
12	Maik	Aamodt	1986-06-20
13	Moto	Aamodt	1986-05-29
14	Shmuel	Aamodt	1986-05-27
15	Rajmohan	Aamodt	1986-05-22
16	Fatemeh	Aamodt	1986-05-07

3.

Query

Query History

```
--3.List the manager of each department along with their department number, department name, employee number, last name, and first name
```

```
113 Select
114 dm.dept_no,
115 d.dept_name,
116 e.emp_no,
117 e.last_name,
118 e.first_name
119 FROM
120 employees e
121 join dept_manager dm on dm.empl_no = e.emp_no
122 join departments d on d.dept_no = dm.dept_no
123
124 ORDER by
125 dm.dept_no asc;
```

Data Output

Messages

Notifications

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4.

```

113 --List the department number for each employee along with that employee's employee number, last name, first name, and department name
114 Select
115     de.dept_no,
116     e.emp_no,
117     e.last_name,
118     e.first_name,
119     d.dept_name
120 FROM
121     employees e
122     join dept_emp de on de.emp_no = e.emp_no
123     join departments d on d.dept_no = de.dept_no
124
125 ORDER by
126     e.last_name asc,
127     e.first_name asc;
128

```

Data Output
Messages
Notifications

	dept_no character varying (5)	emp_no integer	last_name character varying (200)	first_name character varying (150)	dept_name character varying (50)
1	d005	258641	Aamodt	Abdelkader	Development
2	d005	258005	Aamodt	Adhemar	Development
3	d007	455773	Aamodt	Aemilian	Sales
4	d005	436560	Aamodt	Alagu	Development
5	d004	266651	Aamodt	Aleksander	Production
6	d001	487598	Aamodt	Alexius	Marketing
7	d003	216963	Aamodt	Alois	Human Resources
8	d005	15427	Aamodt	Aluzio	Development
9	d008	100860	Aamodt	Amabile	Research
10	d004	107070	Aamodt	Anestis	Production
11	d004	238705	Aamodt	Anoosh	Production
12	d005	238705	Aamodt	Anoosh	Development
13	d004	225884	Aamodt	Anwar	Production
14	d008	206338	Aamodt	Arlette	Research

5.

```
129 --List first name, last name, and sex of each employee whose first name is Hercules and whose last name begins with the letter B
130 Select
131     e.first_name,
132     e.last_name,
133     e.sex
134 from
135     employees e
136 Where
137     e.first_name = 'Hercules' AND
138     e.last_name LIKE 'B%'
139 Order by
140     e.last_name asc,
141     e.first_name desc;
142
```

Data Output Messages Notifications

	first_name character varying (150)	last_name character varying (200)	sex character varying (2)
1	Hercules	Baak	M
2	Hercules	Baer	M
3	Hercules	Bahr	M
4	Hercules	Bail	F
5	Hercules	Bain	F
6	Hercules	Baranowski	M
7	Hercules	Barreiro	M
8	Hercules	Basagni	M
9	Hercules	Benantar	F
10	Hercules	Benzmuller	M
11	Hercules	Bernardinello	F
12	Hercules	Bernatsky	M
13	Hercules	Berstel	F
14	Hercules	Biran	F
15	Hercules	Birge	F
16	Hercules	Biron	F

6.

```
143 --List each employee in the Sales department, including their employee number, last name, and first name
144 Select
145     e.emp_no,
146     e.last_name,
147     e.first_name,
148     d.dept_name
149 FROM
150     employees e
151     join dept_emp de on de.emp_no = e.emp_no
152     join departments d on d.dept_no = de.dept_no
153 Where
154     dept_name = 'Sales'
155 ORDER by
156     e.last_name asc,
157     e.first_name asc;
158
```

Data Output Messages Notifications

	emp_no integer	last_name character varying (200)	first_name character varying (150)	dept_name character varying (50)
1	455773	Aamodt	Aemillian	Sales
2	107094	Aamodt	Baoqiu	Sales
3	203802	Aamodt	Berry	Sales
4	428594	Aamodt	Breannda	Sales
5	61219	Aamodt	Chuanyi	Sales
6	492546	Aamodt	Elzbieta	Sales
7	433338	Aamodt	Gian	Sales
8	290839	Aamodt	Guoxiang	Sales
9	233941	Aamodt	Hairong	Sales
10	103125	Aamodt	Huican	Sales
11	275120	Aamodt	Jaldeep	Sales
12	240207	Aamodt	Jiann	Sales
13	257214	Aamodt	Kaijung	Sales
14	443223	Aamodt	Karlis	Sales
15	42706	Aamodt	Khalid	Sales

7.

```

159 --List each employee in the Sales and Development departments, including their employee number, last name, first name, and department name
160 Select
161     e.emp_no,
162     e.last_name,
163     e.first_name,
164     d.dept_name
165 FROM
166     employees e
167     join dept_emp de on de.emp_no = e.emp_no
168     join departments d on d.dept_no = de.dept_no
169 Where
170     d.dept_name IN ('Sales','Development')
171 ORDER by
172     e.last_name asc,
173     e.first_name asc;

```

	emp_no	last_name	first_name	dept_name
	integer	character varying (200)	character varying (150)	character varying (50)
1	258641	Aamodt	Abdelkader	Development
2	258005	Aamodt	Adhemar	Development
3	455773	Aamodt	Aemilian	Sales
4	436560	Aamodt	Alagu	Development
5	15427	Aamodt	Aluzio	Development
6	238705	Aamodt	Anoosh	Development
7	107094	Aamodt	Baoqiu	Sales
8	411560	Aamodt	Basant	Development
9	203802	Aamodt	Berry	Sales
10	428594	Aamodt	Breanna	Sales
11	31701	Aamodt	Carrsten	Development
12	61219	Aamodt	Chuanyi	Sales
13	276101	Aamodt	Deborah	Development
14	293563	Aamodt	Dietrich	Development
15	53390	Aamodt	Dmitry	Development
16	257801	Aamodt	Duri	Development

8.

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174 \
175 --List the frequency counts, in descending order, of all the employee last names (that is, how many employees share each last name)
176 Select
177     e.last_name,
178     count(e.emp_no) as num_last_name
179 from
180     employees e
181 Group by
182     e.last_name
183 Order by
184     num_last_name desc;

```

	last_name	num_last_name
	character varying (200)	bigint
1	Baba	226
2	Coorg	223
3	Gelosh	223
4	Sudbeck	222
5	Farris	222
6	Adachi	221
7	Osgood	220
8	Neiman	218
9	Mandell	218
10	Masada	218
11	Boudaillier	217
12	Wendorf	217
13	Mahnke	216
14	Solares	216
15	Pettis	216
16	Cummings	216