

The image features a solid teal background. A white rectangular area is positioned on the right side, containing the text 'Java Enterprise Edition' and 'ANUDIP FOUNDATION'.

**Java Enterprise Edition**

**ANUDIP FOUNDATION**

A solid teal horizontal bar is located at the bottom of the white rectangular area.

MySQL Subquery

Time : 80 Min

1. Write a query to find the name (first\_name, last\_name) and the salary of the employees who have a higher salary than the employee whose last\_name='Bull'.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30

117   Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04   PU_CLERK
2800.00   0.00   114   30				
118   Guy	Himuro	GHIMURO	515.127.4565	1987-07-05   PU_CLERK
2600.00   0.00   114   30				
119   Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06   PU_CLERK
2500.00   0.00   114   30				
120   Matthew	Weiss	MWEISS	650.123.1234	1987-07-07   ST_MAN
8000.00   0.00   100   50				
121   Adam	Fripp	AFRIPP	650.123.2234	1987-07-08   ST_MAN
8200.00   0.00   100   50				
122   Payam	Kaufling	PKAUFLIN	650.123.3234	1987-07-09   ST_MAN
7900.00   0.00   100   50				
123   Shanta	Vollman	SVOLLMAN	650.123.4234	1987-07-10   ST_MAN
6500.00   0.00   100   50				
124   Kevin	Mourgos	KMOURGOS	650.123.5234	1987-07-11   ST_MAN
5800.00   0.00   100   50				
125   Julia	Nayer	JNAYER	650.124.1214	1987-07-12   ST_CLERK
3200.00   0.00   120   50				
126   Irene	Mikkilineni	IMIKKILI	650.124.1224	1987-07-13   ST_CLERK
2700.00   0.00   120   50				
127   James	Landry	JLANDRY	650.124.1334	1987-07-14   ST_CLERK
2400.00   0.00   120   50				
128   Steven	Markle	SMARKLE	650.124.1434	1987-07-15   ST_CLERK
2200.00   0.00   120   50				
129   Laura	Bissot	LBISSOT	650.124.5234	1987-07-16   ST_CLERK
3300.00   0.00   121   50				
130   Mozhe	Atkinson	MATKINSO	650.124.6234	1987-07-17   ST_CLERK
2800.00   0.00   121   50				
131   James	Marlow	JAMRLOW	650.124.7234	1987-07-18   ST_CLERK
2500.00   0.00   121   50				
132   TJ	Olson	TJOLSON	650.124.8234	1987-07-19   ST_CLERK
2100.00   0.00   121   50				
133   Jason	Mallin	JMALLIN	650.127.1934	1987-07-20   ST_CLERK
3300.00   0.00   122   50				
134   Michael	Rogers	MROGERS	650.127.1834	1987-07-21   ST_CLERK
2900.00   0.00   122   50				
135   Ki	Gee	KGEE	650.127.1734	1987-07-22   ST_CLERK   2400.00
0.00   122   50				
136   Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23   ST_CLERK
2200.00   0.00   122   50				
137   Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24   ST_CLERK
3600.00   0.00   123   50				
138   Stephen	Stiles	SSTILES	650.121.2034	1987-07-25   ST_CLERK
3200.00   0.00   123   50				
139   John	Seo	JSEO	650.121.2019	1987-07-26   ST_CLERK
2700.00   0.00   123   50				

140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Trena   Rajs   TRAJ   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambrault   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambrault   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80

163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50

186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

**Code:**

```
SELECT FIRST_NAME, LAST_NAME, SALARY
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```
FROM employees
```

```
WHERE SALARY >
```

```
(SELECT salary FROM employees WHERE last_name = 'Bull');
```

2. Write a query to find the name (first\_name, last\_name) of all employees who works in the IT department.

### Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30

115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgös   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50



138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80

161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50

184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

**Sample table: departments**

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700

**Code:**

```
SELECT first_name, last_name
```

```
FROM employees
```

```
WHERE department_id
```

```
IN (SELECT department_id FROM departments WHERE department_name='IT');
```

**3.** Write a query to find the name (first\_name, last\_name) of the employees who have a manager and worked in a USA based department.

Hint : Write single-row and multiple-row subqueries

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06	PU_CLERK	2500.00	0.00	114	30

120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgös   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJs   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50

	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30	100	80				
	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1987-08-04	SA_MAN	
11000.00		0.30	100	80				
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	1987-08-05	SA_MAN	
10500.00		0.20	100	80				
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1987-08-06	SA_REP	
10000.00		0.30	145	80				
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1987-08-07	SA_REP	
9500.00		0.25	145	80				
	152	Peter	Hall	PHALL	011.44.1344.478968	1987-08-08	SA_REP	
9000.00		0.25	145	80				
	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1987-08-09	SA_REP	
8000.00		0.20	145	80				
	154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1987-08-10	SA_REP	
7500.00		0.20	145	80				
	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1987-08-11	SA_REP	
7000.00		0.15	145	80				
	156	Janette	King	JKING	011.44.1345.429268	1987-08-12	SA_REP	
10000.00		0.35	146	80				
	157	Patrick	Sully	PSULLY	011.44.1345.929268	1987-08-13	SA_REP	
9500.00		0.35	146	80				
	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1987-08-14	SA_REP	
9000.00		0.35	146	80				
	159	Lindsey	Smith	LSMITH	011.44.1345.729268	1987-08-15	SA_REP	
8000.00		0.30	146	80				
	160	Louise	Doran	LDORAN	011.44.1345.629268	1987-08-16	SA_REP	
7500.00		0.30	146	80				
	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1987-08-17	SA_REP	
7000.00		0.25	146	80				
	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1987-08-18	SA_REP	
10500.00		0.25	147	80				
	163	Danielle	Greene	DGREENE	011.44.1346.229268	1987-08-19	SA_REP	
9500.00		0.15	147	80				
	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	1987-08-20	SA_REP	
7200.00		0.10	147	80				
	165	David	Lee	DLEE	011.44.1346.529268	1987-08-21	SA_REP	
6800.00		0.10	147	80				

166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50



	189	Jennifer	Dilly	JDILLY	650.505.2876	1987-09-14	SH_CLERK	
3600.00		0.00	122	50				
	190	Timothy	Gates	TGATES	650.505.3876	1987-09-15	SH_CLERK	
2900.00		0.00	122	50				
	191	Randall	Perkins	RPERKINS	650.505.4876	1987-09-16	SH_CLERK	
2500.00		0.00	122	50				
	192	Sarah	Bell	SBELL	650.501.1876	1987-09-17	SH_CLERK	
4000.00		0.00	123	50				
	193	Britney	Everett	BEVERETT	650.501.2876	1987-09-18	SH_CLERK	
3900.00		0.00	123	50				
	194	Samuel	McCain	SMCCAIN	650.501.3876	1987-09-19	SH_CLERK	
3200.00		0.00	123	50				
	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	
2800.00		0.00	123	50				
	196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	
3100.00		0.00	124	50				
	197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	
3000.00		0.00	124	50				
	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

### Sample table: departments

+-----+-----+-----+-----+			
	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID   LOCATION_ID
+-----+-----+-----+-----+			
	10	Administration	200   1700
	20	Marketing	201   1800
	30	Purchasing	114   1700
	40	Human Resources	203   2400
	50	Shipping	121   1500
	60	IT	103   1400
	70	Public Relations	204   2700

80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700

+-----+-----+-----+

### Sample table: locations

location_id	street_address	postal_code	city	state_province	country_id
1000	1297 Via Cola di Rie	989	Roma	IT	
1100	93091 Calle della Te	10934	Venice	IT	
1200	2017 Shinjuku-ku	1689	Tokyo	Tokyo Prefectu	JP
1300	9450 Kamiya-cho	6823	Hiroshima	JP	
1400	2014 Jabberwocky Rd	26192	Southlake	Texas	US
1500	2011 Interiors Blvd	99236	South San	California	US
1600	2007 Zagora St	50090	South Brun	New Jersey	US
1700	2004 Charade Rd	98199	Seattle	Washington	US
1800	147 Spadina Ave	M5V 2L7	Toronto	Ontario	CA
1900	6092 Boxwood St	YSW 9T2	Whitehorse	Yukon	CA
2000	40-5-12 Laogianggen	190518	Beijing		CN
2100	1298 Vileparle (E)	490231	Bombay	Maharashtra	IN
2200	12-98 Victoria Stree	2901	Sydney	New South Wale	AU
2300	198 Clementi North	540198	Singapore		SG
2400	8204 Arthur St		London		UK
2500	Magdalen Centre, The	OX9 9ZB	Oxford	Oxford	UK
2600	9702 Chester Road	9629850293	Stretford	Manchester	UK
2700	Schwanthalerstr. 703	80925	Munich	Bavaria	DE
2800	Rua Frei Caneca 1360	01307-002	Sao Paulo	Sao Paulo	BR
2900	20 Rue des Corps-Sai	1730	Geneva	Geneve	CH
3000	Murtenstrasse 921	3095	Bern	BE	CH
3100	Pieter Breughelstraa	3029SK	Utrecht	Utrecht	NL
3200	Mariano Escobedo 999	11932	Mexico Cit	Distrito Feder	MX

```

SELECT first_name, last_name FROM employees
WHERE manager_id in (select employee_id
FROM employees WHERE department_id
IN (SELECT department_id FROM departments WHERE location_id
IN (select location_id from locations where country_id='US')));

```

4. Write a query to find the name (first\_name, last\_name) of the employees who are managers.

#### Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	90	
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	

115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgös   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50

138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Trena   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80

161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50

184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

### MySQL Subquery Syntax:

```
operand comparison_operator
operand IN (subquery)
operand comparison_operator SOME (subquery)
```

Where comparison\_operator is one of these operators

```
= > < >= <= <> !=
```

and IN operator checks whether a value is within a set of values.

For example :

```
mysql> SELECT 2 IN (0,3,5,7);
```

```
-> 0
```

```
mysql> SELECT 'wefwf' IN ('wee','wefwf','weg');
```

```
-> 1
```

When used with a subquery, the word IN is an alias for = ANY. Thus, these two statements are the same:

```
SELECT s1 FROM t1 WHERE s1 = ANY (SELECT s1 FROM t2);
```

```
SELECT s1 FROM t1 WHERE s1 IN (SELECT s1 FROM t2);
```

IN and = ANY are not synonyms when used with an expression list. IN can take an expression list, but = ANY cannot.

**5.** Write a query to find the name (first\_name, last\_name), and salary of the employees whose salary is greater than the average salary.

#### **Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90



102   Lex   De Haan   LDEHAAN   515.123.4569   1987-06-19   AD_VP
17000.00   0.00   100   90
103   Alexander   Hunold   AHUNOLD   590.423.4567   1987-06-20   IT_PROG
9000.00   0.00   102   60
104   Bruce   Ernst   BERNST   590.423.4568   1987-06-21   IT_PROG
6000.00   0.00   103   60
105   David   Austin   DAUSTIN   590.423.4569   1987-06-22   IT_PROG
4800.00   0.00   103   60
106   Valli   Pataballa   VPATABAL   590.423.4560   1987-06-23   IT_PROG
4800.00   0.00   103   60
107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviat   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgog   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50

	125	Julia	Nayer	JNAYER	650.124.1214	1987-07-12	ST_CLERK	
3200.00		0.00	120	50				
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1987-07-13	ST_CLERK	
2700.00		0.00	120	50				
	127	James	Landry	JLANDRY	650.124.1334	1987-07-14	ST_CLERK	
2400.00		0.00	120	50				
	128	Steven	Markle	SMARKLE	650.124.1434	1987-07-15	ST_CLERK	
2200.00		0.00	120	50				
	129	Laura	Bissot	LBISSOT	650.124.5234	1987-07-16	ST_CLERK	
3300.00		0.00	121	50				
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1987-07-17	ST_CLERK	
2800.00		0.00	121	50				
	131	James	Marlow	JAMRLOW	650.124.7234	1987-07-18	ST_CLERK	
2500.00		0.00	121	50				
	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	
2100.00		0.00	121	50				
	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGEE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJIS	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30	100	80				

148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80

171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50

194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

**Code:**

```
SELECT first_name, last_name, salary FROM employees
```

```
WHERE salary > (SELECT AVG(salary) FROM employees);
```

**6.** Write a query to find the name (first\_name, last\_name), and salary of the employees whose salary is equal to the minimum salary for their job grade.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90

102   Lex   De Haan   LDEHAAN   515.123.4569   1987-06-19   AD_VP
17000.00   0.00   100   90
103   Alexander   Hunold   AHUNOLD   590.423.4567   1987-06-20   IT_PROG
9000.00   0.00   102   60
104   Bruce   Ernst   BERNST   590.423.4568   1987-06-21   IT_PROG
6000.00   0.00   103   60
105   David   Austin   DAUSTIN   590.423.4569   1987-06-22   IT_PROG
4800.00   0.00   103   60
106   Valli   Pataballa   VPATABAL   590.423.4560   1987-06-23   IT_PROG
4800.00   0.00   103   60
107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviat   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIA   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgog   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50

	125	Julia	Nayer	JNAYER	650.124.1214	1987-07-12	ST_CLERK	
3200.00		0.00	120	50				
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1987-07-13	ST_CLERK	
2700.00		0.00	120	50				
	127	James	Landry	JLANDRY	650.124.1334	1987-07-14	ST_CLERK	
2400.00		0.00	120	50				
	128	Steven	Markle	SMARKLE	650.124.1434	1987-07-15	ST_CLERK	
2200.00		0.00	120	50				
	129	Laura	Bissot	LBISSOT	650.124.5234	1987-07-16	ST_CLERK	
3300.00		0.00	121	50				
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1987-07-17	ST_CLERK	
2800.00		0.00	121	50				
	131	James	Marlow	JAMRLOW	650.124.7234	1987-07-18	ST_CLERK	
2500.00		0.00	121	50				
	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	
2100.00		0.00	121	50				
	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGEE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJIS	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30	100	80				



148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80



171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50

194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

### Sample table: jobs

+-----+-----+-----+-----+			
JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
+-----+-----+-----+-----+			
AD_PRES	President	20000	40000
AD_VP	Administration Vice President	15000	30000
AD_ASST	Administration Assistant	3000	6000
FI_MGR	Finance Manager	8200	16000
FI_ACCOUNT	Accountant	4200	9000
AC_MGR	Accounting Manager	8200	16000
AC_ACCOUNT	Public Accountant	4200	9000
SA_MAN	Sales Manager	10000	20000
SA_REP	Sales Representative	6000	12000
PU_MAN	Purchasing Manager	8000	15000
PU_CLERK	Purchasing Clerk	2500	5500
ST_MAN	Stock Manager	5500	8500
ST_CLERK	Stock Clerk	2000	5000

```

| SH_CLERK | Shipping Clerk          | 2500 | 5500 |
| IT_PROG  | Programmer              | 4000 | 10000 |
| MK_MAN   | Marketing Manager       | 9000 | 15000 |
| MK_REP   | Marketing Representative | 4000 | 9000 |
| HR_REP   | Human Resources Representative | 4000 | 9000 |
| PR_REP   | Public Relations Representative | 4500 | 10500 |
+-----+-----+-----+-----+

```

**Code:**

```

SELECT first_name, last_name, salary
FROM employees
WHERE employees.salary = (SELECT min_salary
FROM jobs
WHERE employees.job_id = jobs.job_id);

```

**7.** Write a query to find the name (first\_name, last\_name), and salary of the employees who earns more than the average salary and works in any of the IT departments.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100

111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgös   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50

134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambrault   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambrault   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80

157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80

180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20

	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

### Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700

### Code:

```
SELECT first_name, last_name, salary
```

```
FROM employees
```



WHERE department\_id IN

(SELECT department\_id FROM departments WHERE department\_name LIKE 'IT%')

AND salary > (SELECT avg(salary) FROM employees);

**8.** Write a query to find the name (first\_name, last\_name), and salary of the employees who earns more than the earning of Mr. Bell.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30

117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgos   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50

140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Trena   Rajs   TRAJ   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambrault   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambrault   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80

163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50

	186	Julia	Dellinger	JDELLING	650.509.3876	1987-09-11	SH_CLERK	
3400.00		0.00	121	50				
	187	Anthony	Cabrio	ACABRIO	650.509.4876	1987-09-12	SH_CLERK	
3000.00		0.00	121	50				
	188	Kelly	Chung	KCHUNG	650.505.1876	1987-09-13	SH_CLERK	
3800.00		0.00	122	50				
	189	Jennifer	Dilly	JDILLY	650.505.2876	1987-09-14	SH_CLERK	
3600.00		0.00	122	50				
	190	Timothy	Gates	TGATES	650.505.3876	1987-09-15	SH_CLERK	
2900.00		0.00	122	50				
	191	Randall	Perkins	RPERKINS	650.505.4876	1987-09-16	SH_CLERK	
2500.00		0.00	122	50				
	192	Sarah	Bell	SBELL	650.501.1876	1987-09-17	SH_CLERK	
4000.00		0.00	123	50				
	193	Britney	Everett	BEVERETT	650.501.2876	1987-09-18	SH_CLERK	
3900.00		0.00	123	50				
	194	Samuel	McCain	SMCCAIN	650.501.3876	1987-09-19	SH_CLERK	
3200.00		0.00	123	50				
	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	
2800.00		0.00	123	50				
	196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	
3100.00		0.00	124	50				
	197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	
3000.00		0.00	124	50				
	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

### Sample table: departments

+-----+-----+-----+-----+

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700

**Code:**

```
SELECT first_name, last_name, salary
```

```
FROM employees
```

```
WHERE salary >
```

```
(SELECT salary FROM employees WHERE last_name = 'Bell') ORDER BY first_name;
```

9. Write a query to find the name (first\_name, last\_name), and salary of the employees who earn the same salary as the minimum salary for all departments.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE
JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	
100	Steven	King	SKING	515.123.4567	1987-06-17
AD_PRES	24000.00	0.00	0	90	

101   Neena   Kochhar   NKOCHHAR   515.123.4568   1987-06-18   AD_VP
17000.00   0.00   100   90
102   Lex   De Haan   LDEHAAN   515.123.4569   1987-06-19   AD_VP
17000.00   0.00   100   90
103   Alexander   Hunold   AHUNOLD   590.423.4567   1987-06-20   IT_PROG
9000.00   0.00   102   60
104   Bruce   Ernst   BERNST   590.423.4568   1987-06-21   IT_PROG
6000.00   0.00   103   60
105   David   Austin   DAUSTIN   590.423.4569   1987-06-22   IT_PROG
4800.00   0.00   103   60
106   Valli   Pataballa   VPATABAL   590.423.4560   1987-06-23   IT_PROG
4800.00   0.00   103   60
107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviet   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50

124   Kevin   Mourgos   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJs   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80



147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80

	170	Tayler	Fox	TFOX	011.44.1343.729268	1987-08-26	SA_REP	
9600.00		0.20	148	80				
	171	William	Smith	WSMITH	011.44.1343.629268	1987-08-27	SA_REP	
7400.00		0.15	148	80				
	172	Elizabeth	Bates	EBATES	011.44.1343.529268	1987-08-28	SA_REP	
7300.00		0.15	148	80				
	173	Sundita	Kumar	SKUMAR	011.44.1343.329268	1987-08-29	SA_REP	
6100.00		0.10	148	80				
	174	Ellen	Abel	EABEL	011.44.1644.429267	1987-08-30	SA_REP	
11000.00		0.30	149	80				
	175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	1987-08-31	SA_REP	
8800.00		0.25	149	80				
	176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	1987-09-01	SA_REP	
8600.00		0.20	149	80				
	177	Jack	Livingston	JLIVINGS	011.44.1644.429264	1987-09-02	SA_REP	
8400.00		0.20	149	80				
	178	Kimberely	Grant	KGRANT	011.44.1644.429263	1987-09-03	SA_REP	
7000.00		0.15	149	0				
	179	Charles	Johnson	CJOHNSON	011.44.1644.429262	1987-09-04	SA_REP	
6200.00		0.10	149	80				
	180	Winston	Taylor	WTAYLOR	650.507.9876	1987-09-05	SH_CLERK	
3200.00		0.00	120	50				
	181	Jean	Fleaur	JFLEAUR	650.507.9877	1987-09-06	SH_CLERK	
3100.00		0.00	120	50				
	182	Martha	Sullivan	MSULLIVA	650.507.9878	1987-09-07	SH_CLERK	
2500.00		0.00	120	50				
	183	Girard	Geoni	GGEONI	650.507.9879	1987-09-08	SH_CLERK	
2800.00		0.00	120	50				
	184	Nandita	Sarchand	NSARCHAN	650.509.1876	1987-09-09	SH_CLERK	
4200.00		0.00	121	50				
	185	Alexis	Bull	ABULL	650.509.2876	1987-09-10	SH_CLERK	
4100.00		0.00	121	50				
	186	Julia	Dellinger	JDELLING	650.509.3876	1987-09-11	SH_CLERK	
3400.00		0.00	121	50				
	187	Anthony	Cabrio	ACABRIO	650.509.4876	1987-09-12	SH_CLERK	
3000.00		0.00	121	50				
	188	Kelly	Chung	KCHUNG	650.505.1876	1987-09-13	SH_CLERK	
3800.00		0.00	122	50				
	189	Jennifer	Dilly	JDILLY	650.505.2876	1987-09-14	SH_CLERK	
3600.00		0.00	122	50				
	190	Timothy	Gates	TGATES	650.505.3876	1987-09-15	SH_CLERK	
2900.00		0.00	122	50				
	191	Randall	Perkins	RPERKINS	650.505.4876	1987-09-16	SH_CLERK	
2500.00		0.00	122	50				
	192	Sarah	Bell	SBELL	650.501.1876	1987-09-17	SH_CLERK	
4000.00		0.00	123	50				

	193	Britney	Everett	BEVERETT	650.501.2876	1987-09-18	SH_CLERK	
3900.00		0.00	123	50				
	194	Samuel	McCain	SMCCAIN	650.501.3876	1987-09-19	SH_CLERK	
3200.00		0.00	123	50				
	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	
2800.00		0.00	123	50				
	196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	
3100.00		0.00	124	50				
	197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	
3000.00		0.00	124	50				
	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

### Sample table: departments

+-----+-----+-----+			
	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID   LOCATION_ID
+-----+-----+-----+			
	10	Administration	200   1700
	20	Marketing	201   1800
	30	Purchasing	114   1700
	40	Human Resources	203   2400
	50	Shipping	121   1500
	60	IT	103   1400
	70	Public Relations	204   2700
	80	Sales	145   2500
	90	Executive	100   1700
	100	Finance	108   1700
	110	Accounting	205   1700
	120	Treasury	0   1700
	130	Corporate Tax	0   1700
	140	Control And Credit	0   1700

```

|      150 | Shareholder Services |      0 |      1700 |
|      160 | Benefits              |      0 |      1700 |
|      170 | Manufacturing          |      0 |      1700 |
|      180 | Construction           |      0 |      1700 |
|      190 | Contracting            |      0 |      1700 |
|      200 | Operations             |      0 |      1700 |
|      210 | IT Support             |      0 |      1700 |
|      220 | NOC                   |      0 |      1700 |
|      230 | IT Helpdesk            |      0 |      1700 |
|      240 | Government Sales       |      0 |      1700 |
|      250 | Retail Sales           |      0 |      1700 |
|      260 | Recruiting             |      0 |      1700 |
|      270 | Payroll                |      0 |      1700 |
+-----+-----+-----+-----+

```

**Code:**

```

SELECT * FROM employees
WHERE salary = (SELECT MIN(salary) FROM employees);

```

**10.** Write a query to find the name (first\_name, last\_name), and salary of the employees whose salary is greater than the average salary of all departments.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100

109   Daniel   Faviet   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgos   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50

	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	
2100.00		0.00	121	50				
	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGEE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJs	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30	100	80				
	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1987-08-04	SA_MAN	
11000.00		0.30	100	80				
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	1987-08-05	SA_MAN	
10500.00		0.20	100	80				
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1987-08-06	SA_REP	
10000.00		0.30	145	80				
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1987-08-07	SA_REP	
9500.00		0.25	145	80				
	152	Peter	Hall	PHALL	011.44.1344.478968	1987-08-08	SA_REP	
9000.00		0.25	145	80				
	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1987-08-09	SA_REP	
8000.00		0.20	145	80				
	154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1987-08-10	SA_REP	
7500.00		0.20	145	80				

155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80

178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10



	201	Michael	Hartstein	MHARTSTE	515.123.5555		1987-09-26	MK_MAN	
13000.00		0.00	100	20					
	202	Pat	Fay	PFAY	603.123.6666		1987-09-27	MK_REP	6000.00
0.00		201	20						
	203	Susan	Mavris	SMAVRIS	515.123.7777		1987-09-28	HR_REP	
6500.00		0.00	101	40					
	204	Hermann	Baer	HBAER	515.123.8888		1987-09-29	PR_REP	
10000.00		0.00	101	70					
	205	Shelley	Higgins	SHIGGINS	515.123.8080		1987-09-30	AC_MGR	
12000.00		0.00	101	110					
	206	William	Gietz	WGIETZ	515.123.8181		1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110					

**Code:**

```
SELECT * FROM employees
```

```
WHERE salary >
```

```
ALL(SELECT avg(salary)FROM employees GROUP BY department_id);
```

Copy

**Explanation:**

[MySQL Subquery](#) with ALL :

Syntax :

```
operand comparison_operator ALL (subquery)
```

The word ALL, which must follow a comparison operator, means "return TRUE if the comparison is TRUE for ALL of the values in the column that the subquery returns." For example:

```
SELECT s1 FROM t1 WHERE s1 > ALL (SELECT s1 FROM t2);
```

Suppose that there is a row in table t1 containing (10). The expression is TRUE if table t2 contains (-5,0,+5) because 10 is greater than all three values in t2. The expression is FALSE if table t2 contains (12,6,NULL,-100) because there is a single value 12 in table t2 that is greater than 10. The expression is unknown (that is, NULL) if table t2 contains (0,NULL,1).

Finally, the expression is TRUE if table t2 is empty. So, the following expression is TRUE when table t2 is empty :

```
SELECT * FROM t1 WHERE 1 > ALL (SELECT s1 FROM t2);
```

**11.** Write a query to find the name (first\_name, last\_name) and salary of the employees who earn a salary that is higher than the salary of all the Shipping Clerk (JOB\_ID = 'SH\_CLERK'). Sort the results of the salary of the lowest to highest.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	30

119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgog   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJs   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50

142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80

165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50

188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

**Code:**

**SELECT** first\_name,last\_name, job\_id, salary

**FROM** employees

**WHERE** salary >

```
ALL (SELECT salary FROM employees WHERE job_id = 'SH_CLERK') ORDER BY salary;
```

Copy

### Explanation :

[MySQL Subquery](#) with ALL :

Syntax :

**operand comparison\_operator ALL (subquery)**

The word ALL, which must follow a comparison operator, means "return TRUE if the comparison is TRUE for ALL of the values in the column that the subquery returns." For example:

```
SELECT s1 FROM t1 WHERE s1 > ALL (SELECT s1 FROM t2);
```

Copy

Suppose that there is a row in table t1 containing (10). The expression is TRUE if table t2 contains (-5,0,+5) because 10 is greater than all three values in t2. The expression is FALSE if table t2 contains (12,6,NULL,-100) because there is a single value 12 in table t2 that is greater than 10. The expression is unknown (that is, NULL) if table t2 contains (0,NULL,1).

Finally, the expression is TRUE if table t2 is empty. So, the following expression is TRUE when table t2 is empty :

```
SELECT * FROM t1 WHERE 1 > ALL (SELECT s1 FROM t2);
```

**12.** Write a query to find the name (first\_name, last\_name) of the employees who are not supervisors.

### Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60

106   Valli   Pataballa   VPATABAL   590.423.4560   1987-06-23   IT_PROG
4800.00   0.00   103   60
107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviat   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgoss   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50



	129	Laura	Bissot	LBISSOT	650.124.5234	1987-07-16	ST_CLERK	
3300.00		0.00	121	50				
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1987-07-17	ST_CLERK	
2800.00		0.00	121	50				
	131	James	Marlow	JAMRLOW	650.124.7234	1987-07-18	ST_CLERK	
2500.00		0.00	121	50				
	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	
2100.00		0.00	121	50				
	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGEE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJS	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30	100	80				
	148	Gerald	Cambraut	GCAMBRAU	011.44.1344.619268	1987-08-04	SA_MAN	
11000.00		0.30	100	80				
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	1987-08-05	SA_MAN	
10500.00		0.20	100	80				
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1987-08-06	SA_REP	
10000.00		0.30	145	80				
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1987-08-07	SA_REP	
9500.00		0.25	145	80				

152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambrault   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80

175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50

	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

**Code:**

```
SELECT b.first_name,b.last_name
```

```
FROM employees b
```

```
WHERE NOT EXISTS (SELECT 'X' FROM employees a WHERE a.manager_id = b.employee_id);
```

Copy

**Explanation :**

[MySQL Subquery](#) with EXISTS or NOT EXISTS

If a subquery returns any rows at all, EXISTS subquery is TRUE, and NOT EXISTS subquery is FALSE. For example :

```
SELECT column1 FROM t1 WHERE EXISTS (SELECT * FROM t2);
```

Traditionally, an EXISTS subquery starts with SELECT \*, but it could begin with SELECT 5 or SELECT column1 or anything at all. MySQL ignores the SELECT list in such a subquery, so it makes no difference.

**13.** Write a query to display the employee ID, first name, last name, and department names of all employees.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06	PU_CLERK	2500.00	0.00	114	30
120	Matthew	Weiss	MWEISS	650.123.1234	1987-07-07	ST_MAN	8000.00	0.00	100	50

121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgos   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50

144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80



167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50



	190	Timothy	Gates	TGATES	650.505.3876	1987-09-15	SH_CLERK	
2900.00		0.00	122	50				
	191	Randall	Perkins	RPERKINS	650.505.4876	1987-09-16	SH_CLERK	
2500.00		0.00	122	50				
	192	Sarah	Bell	SBELL	650.501.1876	1987-09-17	SH_CLERK	
4000.00		0.00	123	50				
	193	Britney	Everett	BEVERETT	650.501.2876	1987-09-18	SH_CLERK	
3900.00		0.00	123	50				
	194	Samuel	McCain	SMCCAIN	650.501.3876	1987-09-19	SH_CLERK	
3200.00		0.00	123	50				
	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	
2800.00		0.00	123	50				
	196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	
3100.00		0.00	124	50				
	197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	
3000.00		0.00	124	50				
	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

**Sample table: departments**

+-----+-----+-----+-----+			
	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID   LOCATION_ID
+-----+-----+-----+-----+			
	10	Administration	200   1700
	20	Marketing	201   1800
	30	Purchasing	114   1700
	40	Human Resources	203   2400
	50	Shipping	121   1500
	60	IT	103   1400
	70	Public Relations	204   2700

80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700

+-----+-----+-----+

**Code:**

```

SELECT employee_id, first_name, last_name,
(
SELECT department_name FROM departments d
WHERE e.department_id = d.department_id) department
FROM employees e ORDER BY department;
```

**14.** Write a query to display the employee ID, first name, last name, salary of all employees whose salary is above average for their departments.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE
100	Steven	King	SKING	515.123.4567	1987-06-17
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19

103   Alexander   Hunold   AHUNOLD   590.423.4567   1987-06-20   IT_PROG
9000.00   0.00   102   60
104   Bruce   Ernst   BERNST   590.423.4568   1987-06-21   IT_PROG
6000.00   0.00   103   60
105   David   Austin   DAUSTIN   590.423.4569   1987-06-22   IT_PROG
4800.00   0.00   103   60
106   Valli   Pataballa   VPATABAL   590.423.4560   1987-06-23   IT_PROG
4800.00   0.00   103   60
107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviet   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgoss   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50

126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambrault   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80

149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80

172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberly   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50

195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

**Sample table: departments**

+-----+-----+-----+-----+			
DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
+-----+-----+-----+-----+			
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700

210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700
+-----+-----+-----+			

**Code:**

```
SELECT employee_id, first_name
```

```
FROM employees AS A
```

```
WHERE salary >
```

```
(SELECT AVG(salary) FROM employees WHERE department_id = A.department_id);
```

**15.** Write a query to fetch even numbered records from employees table.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	90	
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100



110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgoss   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50

	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGEE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJs	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30	100	80				
	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1987-08-04	SA_MAN	
11000.00		0.30	100	80				
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	1987-08-05	SA_MAN	
10500.00		0.20	100	80				
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1987-08-06	SA_REP	
10000.00		0.30	145	80				
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1987-08-07	SA_REP	
9500.00		0.25	145	80				
	152	Peter	Hall	PHALL	011.44.1344.478968	1987-08-08	SA_REP	
9000.00		0.25	145	80				
	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1987-08-09	SA_REP	
8000.00		0.20	145	80				
	154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1987-08-10	SA_REP	
7500.00		0.20	145	80				
	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1987-08-11	SA_REP	
7000.00		0.15	145	80				

156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberly   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0

179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20

	202	Pat		Fay		PFAY		603.123.6666		1987-09-27		MK_REP		6000.00	
0.00		201		20											
	203	Susan		Mavris		SMAVRIS		515.123.7777		1987-09-28		HR_REP			
6500.00		0.00		101		40									
	204	Hermann		Baer		HBAER		515.123.8888		1987-09-29		PR_REP			
10000.00		0.00		101		70									
	205	Shelley		Higgins		SHIGGINS		515.123.8080		1987-09-30		AC_MGR			
12000.00		0.00		101		110									
	206	William		Gietz		WGIETZ		515.123.8181		1987-10-01		AC_ACCOUNT			
8300.00		0.00		205		110									

**Code:**

```
SET @i = 0;

SELECT i, employee_id

FROM (SELECT @i := @i + 1 AS i, employee_id FROM employees)

a WHERE MOD(a.i, 2) = 0;
```

Copy

The code have been executed in MySQL Version : 5.4.

Here is the output

```
---+-----
i | employee_id
---+-----
2 | 101
4 | 103
6 | 105
8 | 107
10 | 109
12 | 111
14 | 113
16 | 115
18 | 117
20 | 119
22 | 121
24 | 123
.....
```

**16.** Write a query to find the 5th maximum salary in the employees table.**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06	PU_CLERK	2500.00	0.00	114	30
120	Matthew	Weiss	MWEISS	650.123.1234	1987-07-07	ST_MAN	8000.00	0.00	100	50
121	Adam	Fripp	AFRIPP	650.123.2234	1987-07-08	ST_MAN	8200.00	0.00	100	50

	122	Payam	Kaufling	PKAUFLIN	650.123.3234	1987-07-09	ST_MAN	
7900.00		0.00	100	50				
	123	Shanta	Vollman	SVOLLMAN	650.123.4234	1987-07-10	ST_MAN	
6500.00		0.00	100	50				
	124	Kevin	Mourgos	KMOURGOS	650.123.5234	1987-07-11	ST_MAN	
5800.00		0.00	100	50				
	125	Julia	Nayer	JNAYER	650.124.1214	1987-07-12	ST_CLERK	
3200.00		0.00	120	50				
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1987-07-13	ST_CLERK	
2700.00		0.00	120	50				
	127	James	Landry	JLANDRY	650.124.1334	1987-07-14	ST_CLERK	
2400.00		0.00	120	50				
	128	Steven	Markle	SMARKLE	650.124.1434	1987-07-15	ST_CLERK	
2200.00		0.00	120	50				
	129	Laura	Bissot	LBISSOT	650.124.5234	1987-07-16	ST_CLERK	
3300.00		0.00	121	50				
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1987-07-17	ST_CLERK	
2800.00		0.00	121	50				
	131	James	Marlow	JAMRLOW	650.124.7234	1987-07-18	ST_CLERK	
2500.00		0.00	121	50				
	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	
2100.00		0.00	121	50				
	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGEE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJS	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				

	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40		100		80		
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30		100		80		
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30		100		80		
	148	Gerald	Cambraut	GCAMBRAU	011.44.1344.619268	1987-08-04	SA_MAN	
11000.00		0.30		100		80		
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	1987-08-05	SA_MAN	
10500.00		0.20		100		80		
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1987-08-06	SA_REP	
10000.00		0.30		145		80		
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1987-08-07	SA_REP	
9500.00		0.25		145		80		
	152	Peter	Hall	PHALL	011.44.1344.478968	1987-08-08	SA_REP	
9000.00		0.25		145		80		
	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1987-08-09	SA_REP	
8000.00		0.20		145		80		
	154	Nanette	Cambraut	NCAMBRAU	011.44.1344.987668	1987-08-10	SA_REP	
7500.00		0.20		145		80		
	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1987-08-11	SA_REP	
7000.00		0.15		145		80		
	156	Janette	King	JKING	011.44.1345.429268	1987-08-12	SA_REP	
10000.00		0.35		146		80		
	157	Patrick	Sully	PSULLY	011.44.1345.929268	1987-08-13	SA_REP	
9500.00		0.35		146		80		
	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1987-08-14	SA_REP	
9000.00		0.35		146		80		
	159	Lindsey	Smith	LSMITH	011.44.1345.729268	1987-08-15	SA_REP	
8000.00		0.30		146		80		
	160	Louise	Doran	LDORAN	011.44.1345.629268	1987-08-16	SA_REP	
7500.00		0.30		146		80		
	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1987-08-17	SA_REP	
7000.00		0.25		146		80		
	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1987-08-18	SA_REP	
10500.00		0.25		147		80		
	163	Danielle	Greene	DGREENE	011.44.1346.229268	1987-08-19	SA_REP	
9500.00		0.15		147		80		
	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	1987-08-20	SA_REP	
7200.00		0.10		147		80		
	165	David	Lee	DLEE	011.44.1346.529268	1987-08-21	SA_REP	
6800.00		0.10		147		80		
	166	Sundar	Ande	SANDE	011.44.1346.629268	1987-08-22	SA_REP	
6400.00		0.10		147		80		
	167	Amit	Banda	ABANDA	011.44.1346.729268	1987-08-23	SA_REP	
6200.00		0.10		147		80		



168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberly   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50

191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

**Code:**

```

SELECT DISTINCT salary
FROM employees e1
WHERE 5 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary >= e1.salary);

```

**17.** Write a query to find the 4th minimum salary in the employees table.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06	PU_CLERK	2500.00	0.00	114	30
120	Matthew	Weiss	MWEISS	650.123.1234	1987-07-07	ST_MAN	8000.00	0.00	100	50

121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgos   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50

144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80

167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50

	190	Timothy	Gates	TGATES	650.505.3876	1987-09-15	SH_CLERK	
2900.00		0.00	122	50				
	191	Randall	Perkins	RPERKINS	650.505.4876	1987-09-16	SH_CLERK	
2500.00		0.00	122	50				
	192	Sarah	Bell	SBELL	650.501.1876	1987-09-17	SH_CLERK	
4000.00		0.00	123	50				
	193	Britney	Everett	BEVERETT	650.501.2876	1987-09-18	SH_CLERK	
3900.00		0.00	123	50				
	194	Samuel	McCain	SMCCAIN	650.501.3876	1987-09-19	SH_CLERK	
3200.00		0.00	123	50				
	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	
2800.00		0.00	123	50				
	196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	
3100.00		0.00	124	50				
	197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	
3000.00		0.00	124	50				
	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

**Code:**

```

SELECT DISTINCT salary
FROM employees e1
WHERE 4 = (SELECT COUNT(DISTINCT salary)
FROM employees e2
WHERE e2.salary <= e1.salary);

```

**18.** Write a query to select last 10 records from a table.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06	PU_CLERK	2500.00	0.00	114	30
120	Matthew	Weiss	MWEISS	650.123.1234	1987-07-07	ST_MAN	8000.00	0.00	100	50



121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgos   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50

144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80

167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50

190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50
199   Douglas   Grant   DGRANT   650.507.9844   1987-09-24   SH_CLERK
2600.00   0.00   124   50
200   Jennifer   Whalen   JWHALEN   515.123.4444   1987-09-25   AD_ASST
4400.00   0.00   101   10
201   Michael   Hartstein   MHARTSTE   515.123.5555   1987-09-26   MK_MAN
13000.00   0.00   100   20
202   Pat   Fay   PFAY   603.123.6666   1987-09-27   MK_REP   6000.00
0.00   201   20
203   Susan   Mavris   SMAVRIS   515.123.7777   1987-09-28   HR_REP
6500.00   0.00   101   40
204   Hermann   Baer   HBAER   515.123.8888   1987-09-29   PR_REP
10000.00   0.00   101   70
205   Shelley   Higgins   SHIGGINS   515.123.8080   1987-09-30   AC_MGR
12000.00   0.00   101   110
206   William   Gietz   WGIETZ   515.123.8181   1987-10-01   AC_ACCOUNT
8300.00   0.00   205   110

**Code:**

```

SELECT * FROM (
SELECT * FROM employees ORDER BY employee_id DESC LIMIT 10) sub
ORDER BY employee_id ASC;

```

**19.** Write a query to list the department ID and name of all the departments where no employee is working.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06	PU_CLERK	2500.00	0.00	114	30
120	Matthew	Weiss	MWEISS	650.123.1234	1987-07-07	ST_MAN	8000.00	0.00	100	50
121	Adam	Fripp	AFRIPP	650.123.2234	1987-07-08	ST_MAN	8200.00	0.00	100	50

122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgos   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50

145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80



168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80
172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberly   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50



	191	Randall	Perkins	RPERKINS	650.505.4876		1987-09-16	SH_CLERK	
2500.00		0.00	122	50					
	192	Sarah	Bell	SBELL	650.501.1876		1987-09-17	SH_CLERK	
4000.00		0.00	123	50					
	193	Britney	Everett	BEVERETT	650.501.2876		1987-09-18	SH_CLERK	
3900.00		0.00	123	50					
	194	Samuel	McCain	SMCCAIN	650.501.3876		1987-09-19	SH_CLERK	
3200.00		0.00	123	50					
	195	Vance	Jones	VJONES	650.501.4876		1987-09-20	SH_CLERK	
2800.00		0.00	123	50					
	196	Alana	Walsh	AWALSH	650.507.9811		1987-09-21	SH_CLERK	
3100.00		0.00	124	50					
	197	Kevin	Feeney	KFEENEY	650.507.9822		1987-09-22	SH_CLERK	
3000.00		0.00	124	50					
	198	Donald	OConnell	DOCONNEL	650.507.9833		1987-09-23	SH_CLERK	
2600.00		0.00	124	50					
	199	Douglas	Grant	DGRANT	650.507.9844		1987-09-24	SH_CLERK	
2600.00		0.00	124	50					
	200	Jennifer	Whalen	JWHALEN	515.123.4444		1987-09-25	AD_ASST	
4400.00		0.00	101	10					
	201	Michael	Hartstein	MHARTSTE	515.123.5555		1987-09-26	MK_MAN	
13000.00		0.00	100	20					
	202	Pat	Fay	PFAY	603.123.6666		1987-09-27	MK_REP	6000.00
0.00		201	20						
	203	Susan	Mavris	SMAVRIS	515.123.7777		1987-09-28	HR_REP	
6500.00		0.00	101	40					
	204	Hermann	Baer	HBAER	515.123.8888		1987-09-29	PR_REP	
10000.00		0.00	101	70					
	205	Shelley	Higgins	SHIGGINS	515.123.8080		1987-09-30	AC_MGR	
12000.00		0.00	101	110					
	206	William	Gietz	WGIETZ	515.123.8181		1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110					

**Sample table: departments**

+-----+-----+-----+			
	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID   LOCATION_ID
+-----+-----+-----+			
	10	Administration	200   1700
	20	Marketing	201   1800
	30	Purchasing	114   1700
	40	Human Resources	203   2400
	50	Shipping	121   1500
	60	IT	103   1400
	70	Public Relations	204   2700
	80	Sales	145   2500
	90	Executive	100   1700
	100	Finance	108   1700
	110	Accounting	205   1700

120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700
220	NOC	0	1700
230	IT Helpdesk	0	1700
240	Government Sales	0	1700
250	Retail Sales	0	1700
260	Recruiting	0	1700
270	Payroll	0	1700

+-----+

**Code:**

```
SELECT * FROM departments
```

```
WHERE department_id
```

```
NOT IN (select department_id FROM employees);
```

**20.** Write a query to get 3 maximum salaries.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE
JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	
100	Steven	King	SKING	515.123.4567	1987-06-17
24000.00	0.00	0	90		AD_PRES
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18
17000.00	0.00	100	90		AD_VP
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19
17000.00	0.00	100	90		AD_VP
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20
9000.00	0.00	102	60		IT_PROG
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21
6000.00	0.00	103	60		IT_PROG
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22
4800.00	0.00	103	60		IT_PROG
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23
4800.00	0.00	103	60		IT_PROG

107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviet   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgös   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50
126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50

	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1987-07-17	ST_CLERK	
2800.00		0.00	121	50				
	131	James	Marlow	JAMRLOW	650.124.7234	1987-07-18	ST_CLERK	
2500.00		0.00	121	50				
	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	
2100.00		0.00	121	50				
	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJS	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1987-08-03	SA_MAN	
12000.00		0.30	100	80				
	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1987-08-04	SA_MAN	
11000.00		0.30	100	80				
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	1987-08-05	SA_MAN	
10500.00		0.20	100	80				
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1987-08-06	SA_REP	
10000.00		0.30	145	80				
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1987-08-07	SA_REP	
9500.00		0.25	145	80				
	152	Peter	Hall	PHALL	011.44.1344.478968	1987-08-08	SA_REP	
9000.00		0.25	145	80				

	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1987-08-09	SA_REP	
8000.00		0.20		145		80		
	154	Nanette	Cambraut	NCAMBRAU	011.44.1344.987668	1987-08-10	SA_REP	
7500.00		0.20		145		80		
	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1987-08-11	SA_REP	
7000.00		0.15		145		80		
	156	Janette	King	JKING	011.44.1345.429268	1987-08-12	SA_REP	
10000.00		0.35		146		80		
	157	Patrick	Sully	PSULLY	011.44.1345.929268	1987-08-13	SA_REP	
9500.00		0.35		146		80		
	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1987-08-14	SA_REP	
9000.00		0.35		146		80		
	159	Lindsey	Smith	LSMITH	011.44.1345.729268	1987-08-15	SA_REP	
8000.00		0.30		146		80		
	160	Louise	Doran	LDORAN	011.44.1345.629268	1987-08-16	SA_REP	
7500.00		0.30		146		80		
	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1987-08-17	SA_REP	
7000.00		0.25		146		80		
	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1987-08-18	SA_REP	
10500.00		0.25		147		80		
	163	Danielle	Greene	DGREENE	011.44.1346.229268	1987-08-19	SA_REP	
9500.00		0.15		147		80		
	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	1987-08-20	SA_REP	
7200.00		0.10		147		80		
	165	David	Lee	DLEE	011.44.1346.529268	1987-08-21	SA_REP	
6800.00		0.10		147		80		
	166	Sundar	Ande	SANDE	011.44.1346.629268	1987-08-22	SA_REP	
6400.00		0.10		147		80		
	167	Amit	Banda	ABANDA	011.44.1346.729268	1987-08-23	SA_REP	
6200.00		0.10		147		80		
	168	Lisa	Ozer	LOZER	011.44.1343.929268	1987-08-24	SA_REP	
11500.00		0.25		148		80		
	169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1987-08-25	SA_REP	
10000.00		0.20		148		80		
	170	Tayler	Fox	TFOX	011.44.1343.729268	1987-08-26	SA_REP	
9600.00		0.20		148		80		
	171	William	Smith	WSMITH	011.44.1343.629268	1987-08-27	SA_REP	
7400.00		0.15		148		80		
	172	Elizabeth	Bates	EBATES	011.44.1343.529268	1987-08-28	SA_REP	
7300.00		0.15		148		80		
	173	Sundita	Kumar	SKUMAR	011.44.1343.329268	1987-08-29	SA_REP	
6100.00		0.10		148		80		
	174	Ellen	Abel	EABEL	011.44.1644.429267	1987-08-30	SA_REP	
11000.00		0.30		149		80		
	175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	1987-08-31	SA_REP	
8800.00		0.25		149		80		

176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberely   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50
195   Vance   Jones   VJONES   650.501.4876   1987-09-20   SH_CLERK
2800.00   0.00   123   50
196   Alana   Walsh   AWALSH   650.507.9811   1987-09-21   SH_CLERK
3100.00   0.00   124   50
197   Kevin   Feeney   KFEENEY   650.507.9822   1987-09-22   SH_CLERK
3000.00   0.00   124   50
198   Donald   OConnell   DOCONNEL   650.507.9833   1987-09-23   SH_CLERK
2600.00   0.00   124   50

	199	Douglas	Grant	DGRANT	650.507.9844		1987-09-24	SH_CLERK	
2600.00		0.00	124	50					
	200	Jennifer	Whalen	JWHALEN	515.123.4444		1987-09-25	AD_ASST	
4400.00		0.00	101	10					
	201	Michael	Hartstein	MHARTSTE	515.123.5555		1987-09-26	MK_MAN	
13000.00		0.00	100	20					
	202	Pat	Fay	PFAY	603.123.6666		1987-09-27	MK_REP	6000.00
0.00		201	20						
	203	Susan	Mavris	SMAVRIS	515.123.7777		1987-09-28	HR_REP	
6500.00		0.00	101	40					
	204	Hermann	Baer	HBAER	515.123.8888		1987-09-29	PR_REP	
10000.00		0.00	101	70					
	205	Shelley	Higgins	SHIGGINS	515.123.8080		1987-09-30	AC_MGR	
12000.00		0.00	101	110					
	206	William	Gietz	WGIETZ	515.123.8181		1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110					

**Code:**

```

SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary >= a.salary)
ORDER BY a.salary DESC;

```

**21.** Write a query to get 3 minimum salaries.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90

103   Alexander   Hunold   AHUNOLD   590.423.4567   1987-06-20   IT_PROG
9000.00   0.00   102   60
104   Bruce   Ernst   BERNST   590.423.4568   1987-06-21   IT_PROG
6000.00   0.00   103   60
105   David   Austin   DAUSTIN   590.423.4569   1987-06-22   IT_PROG
4800.00   0.00   103   60
106   Valli   Pataballa   VPATABAL   590.423.4560   1987-06-23   IT_PROG
4800.00   0.00   103   60
107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviet   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50
124   Kevin   Mourgog   KMOURGOS   650.123.5234   1987-07-11   ST_MAN
5800.00   0.00   100   50
125   Julia   Nayer   JNAYER   650.124.1214   1987-07-12   ST_CLERK
3200.00   0.00   120   50



126   Irene   Mikkilineni   IMIKKILI   650.124.1224   1987-07-13   ST_CLERK
2700.00   0.00   120   50
127   James   Landry   JLANDRY   650.124.1334   1987-07-14   ST_CLERK
2400.00   0.00   120   50
128   Steven   Markle   SMARKLE   650.124.1434   1987-07-15   ST_CLERK
2200.00   0.00   120   50
129   Laura   Bissot   LBISSOT   650.124.5234   1987-07-16   ST_CLERK
3300.00   0.00   121   50
130   Mozhe   Atkinson   MATKINSO   650.124.6234   1987-07-17   ST_CLERK
2800.00   0.00   121   50
131   James   Marlow   JAMRLOW   650.124.7234   1987-07-18   ST_CLERK
2500.00   0.00   121   50
132   TJ   Olson   TJOLSON   650.124.8234   1987-07-19   ST_CLERK
2100.00   0.00   121   50
133   Jason   Mallin   JMALLIN   650.127.1934   1987-07-20   ST_CLERK
3300.00   0.00   122   50
134   Michael   Rogers   MROGERS   650.127.1834   1987-07-21   ST_CLERK
2900.00   0.00   122   50
135   Ki   Gee   KGEE   650.127.1734   1987-07-22   ST_CLERK   2400.00
0.00   122   50
136   Hazel   Philtanker   HPHILTAN   650.127.1634   1987-07-23   ST_CLERK
2200.00   0.00   122   50
137   Renske   Ladwig   RLADWIG   650.121.1234   1987-07-24   ST_CLERK
3600.00   0.00   123   50
138   Stephen   Stiles   SSTILES   650.121.2034   1987-07-25   ST_CLERK
3200.00   0.00   123   50
139   John   Seo   JSEO   650.121.2019   1987-07-26   ST_CLERK
2700.00   0.00   123   50
140   Joshua   Patel   JPATEL   650.121.1834   1987-07-27   ST_CLERK
2500.00   0.00   123   50
141   Tenna   Rajs   TRAJS   650.121.8009   1987-07-28   ST_CLERK
3500.00   0.00   124   50
142   Curtis   Davies   CDAVIES   650.121.2994   1987-07-29   ST_CLERK
3100.00   0.00   124   50
143   Randall   Matos   RMATOS   650.121.2874   1987-07-30   ST_CLERK
2600.00   0.00   124   50
144   Peter   Vargas   PVARGAS   650.121.2004   1987-07-31   ST_CLERK
2500.00   0.00   124   50
145   John   Russell   JRUSSEL   011.44.1344.429268   1987-08-01   SA_MAN
14000.00   0.40   100   80
146   Karen   Partners   KPARTNER   011.44.1344.467268   1987-08-02   SA_MAN
13500.00   0.30   100   80
147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambrault   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80

149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80
170   Tayler   Fox   TFOX   011.44.1343.729268   1987-08-26   SA_REP
9600.00   0.20   148   80
171   William   Smith   WSMITH   011.44.1343.629268   1987-08-27   SA_REP
7400.00   0.15   148   80

172   Elizabeth   Bates   EBATES   011.44.1343.529268   1987-08-28   SA_REP
7300.00   0.15   148   80
173   Sundita   Kumar   SKUMAR   011.44.1343.329268   1987-08-29   SA_REP
6100.00   0.10   148   80
174   Ellen   Abel   EABEL   011.44.1644.429267   1987-08-30   SA_REP
11000.00   0.30   149   80
175   Alyssa   Hutton   AHUTTON   011.44.1644.429266   1987-08-31   SA_REP
8800.00   0.25   149   80
176   Jonathon   Taylor   JTAYLOR   011.44.1644.429265   1987-09-01   SA_REP
8600.00   0.20   149   80
177   Jack   Livingston   JLIVINGS   011.44.1644.429264   1987-09-02   SA_REP
8400.00   0.20   149   80
178   Kimberly   Grant   KGRANT   011.44.1644.429263   1987-09-03   SA_REP
7000.00   0.15   149   0
179   Charles   Johnson   CJOHNSON   011.44.1644.429262   1987-09-04   SA_REP
6200.00   0.10   149   80
180   Winston   Taylor   WTAYLOR   650.507.9876   1987-09-05   SH_CLERK
3200.00   0.00   120   50
181   Jean   Fleaur   JFLEAUR   650.507.9877   1987-09-06   SH_CLERK
3100.00   0.00   120   50
182   Martha   Sullivan   MSULLIVA   650.507.9878   1987-09-07   SH_CLERK
2500.00   0.00   120   50
183   Girard   Geoni   GGEONI   650.507.9879   1987-09-08   SH_CLERK
2800.00   0.00   120   50
184   Nandita   Sarchand   NSARCHAN   650.509.1876   1987-09-09   SH_CLERK
4200.00   0.00   121   50
185   Alexis   Bull   ABULL   650.509.2876   1987-09-10   SH_CLERK
4100.00   0.00   121   50
186   Julia   Dellinger   JDELLING   650.509.3876   1987-09-11   SH_CLERK
3400.00   0.00   121   50
187   Anthony   Cabrio   ACABRIO   650.509.4876   1987-09-12   SH_CLERK
3000.00   0.00   121   50
188   Kelly   Chung   KCHUNG   650.505.1876   1987-09-13   SH_CLERK
3800.00   0.00   122   50
189   Jennifer   Dilly   JDILLY   650.505.2876   1987-09-14   SH_CLERK
3600.00   0.00   122   50
190   Timothy   Gates   TGATES   650.505.3876   1987-09-15   SH_CLERK
2900.00   0.00   122   50
191   Randall   Perkins   RPERKINS   650.505.4876   1987-09-16   SH_CLERK
2500.00   0.00   122   50
192   Sarah   Bell   SBELL   650.501.1876   1987-09-17   SH_CLERK
4000.00   0.00   123   50
193   Britney   Everett   BEVERETT   650.501.2876   1987-09-18   SH_CLERK
3900.00   0.00   123   50
194   Samuel   McCain   SMCCAIN   650.501.3876   1987-09-19   SH_CLERK
3200.00   0.00   123   50

	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	
2800.00		0.00	123	50				
	196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	
3100.00		0.00	124	50				
	197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	
3000.00		0.00	124	50				
	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

**Code:**

```

SELECT DISTINCT salary
FROM employees a
WHERE 3 >= (SELECT COUNT(DISTINCT salary)
FROM employees b
WHERE b.salary <= a.salary)
ORDER BY a.salary DESC;
```

**22.** Write a query to get nth max salaries of employees.

**Sample table: employees**

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90

101   Neena   Kochhar   NKOCHHAR   515.123.4568   1987-06-18   AD_VP
17000.00   0.00   100   90
102   Lex   De Haan   LDEHAAN   515.123.4569   1987-06-19   AD_VP
17000.00   0.00   100   90
103   Alexander   Hunold   AHUNOLD   590.423.4567   1987-06-20   IT_PROG
9000.00   0.00   102   60
104   Bruce   Ernst   BERNST   590.423.4568   1987-06-21   IT_PROG
6000.00   0.00   103   60
105   David   Austin   DAUSTIN   590.423.4569   1987-06-22   IT_PROG
4800.00   0.00   103   60
106   Valli   Pataballa   VPATABAL   590.423.4560   1987-06-23   IT_PROG
4800.00   0.00   103   60
107   Diana   Lorentz   DLORENTZ   590.423.5567   1987-06-24   IT_PROG
4200.00   0.00   103   60
108   Nancy   Greenberg   NGREENBE   515.124.4569   1987-06-25   FI_MGR
12000.00   0.00   101   100
109   Daniel   Faviet   DFAVIET   515.124.4169   1987-06-26   FI_ACCOUNT
9000.00   0.00   108   100
110   John   Chen   JCHEN   515.124.4269   1987-06-27   FI_ACCOUNT
8200.00   0.00   108   100
111   Ismael   Sciarra   ISCIARRA   515.124.4369   1987-06-28   FI_ACCOUNT
7700.00   0.00   108   100
112   Jose Manuel   Urman   JMURMAN   515.124.4469   1987-06-29   FI_ACCOUNT
7800.00   0.00   108   100
113   Luis   Popp   LPOPP   515.124.4567   1987-06-30   FI_ACCOUNT
6900.00   0.00   108   100
114   Den   Raphaely   DRAPHEAL   515.127.4561   1987-07-01   PU_MAN
11000.00   0.00   100   30
115   Alexander   Khoo   AKHOO   515.127.4562   1987-07-02   PU_CLERK
3100.00   0.00   114   30
116   Shelli   Baida   SBAIDA   515.127.4563   1987-07-03   PU_CLERK
2900.00   0.00   114   30
117   Sigal   Tobias   STOBIAS   515.127.4564   1987-07-04   PU_CLERK
2800.00   0.00   114   30
118   Guy   Himuro   GHIMURO   515.127.4565   1987-07-05   PU_CLERK
2600.00   0.00   114   30
119   Karen   Colmenares   KCOLMENA   515.127.4566   1987-07-06   PU_CLERK
2500.00   0.00   114   30
120   Matthew   Weiss   MWEISS   650.123.1234   1987-07-07   ST_MAN
8000.00   0.00   100   50
121   Adam   Fripp   AFRIPP   650.123.2234   1987-07-08   ST_MAN
8200.00   0.00   100   50
122   Payam   Kaufling   PKAUFLIN   650.123.3234   1987-07-09   ST_MAN
7900.00   0.00   100   50
123   Shanta   Vollman   SVOLLMAN   650.123.4234   1987-07-10   ST_MAN
6500.00   0.00   100   50

	124	Kevin	Mourgos	KMOURGOS	650.123.5234	1987-07-11	ST_MAN	
5800.00		0.00	100	50				
	125	Julia	Nayer	JNAYER	650.124.1214	1987-07-12	ST_CLERK	
3200.00		0.00	120	50				
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1987-07-13	ST_CLERK	
2700.00		0.00	120	50				
	127	James	Landry	JLANDRY	650.124.1334	1987-07-14	ST_CLERK	
2400.00		0.00	120	50				
	128	Steven	Markle	SMARKLE	650.124.1434	1987-07-15	ST_CLERK	
2200.00		0.00	120	50				
	129	Laura	Bissot	LBISSOT	650.124.5234	1987-07-16	ST_CLERK	
3300.00		0.00	121	50				
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1987-07-17	ST_CLERK	
2800.00		0.00	121	50				
	131	James	Marlow	JAMRLOW	650.124.7234	1987-07-18	ST_CLERK	
2500.00		0.00	121	50				
	132	TJ	Olson	TJOLSON	650.124.8234	1987-07-19	ST_CLERK	
2100.00		0.00	121	50				
	133	Jason	Mallin	JMALLIN	650.127.1934	1987-07-20	ST_CLERK	
3300.00		0.00	122	50				
	134	Michael	Rogers	MROGERS	650.127.1834	1987-07-21	ST_CLERK	
2900.00		0.00	122	50				
	135	Ki	Gee	KGEE	650.127.1734	1987-07-22	ST_CLERK	2400.00
	0.00	122	50					
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	1987-07-23	ST_CLERK	
2200.00		0.00	122	50				
	137	Renske	Ladwig	RLADWIG	650.121.1234	1987-07-24	ST_CLERK	
3600.00		0.00	123	50				
	138	Stephen	Stiles	SSTILES	650.121.2034	1987-07-25	ST_CLERK	
3200.00		0.00	123	50				
	139	John	Seo	JSEO	650.121.2019	1987-07-26	ST_CLERK	
2700.00		0.00	123	50				
	140	Joshua	Patel	JPATEL	650.121.1834	1987-07-27	ST_CLERK	
2500.00		0.00	123	50				
	141	Tenna	Rajs	TRAJs	650.121.8009	1987-07-28	ST_CLERK	
3500.00		0.00	124	50				
	142	Curtis	Davies	CDAVIES	650.121.2994	1987-07-29	ST_CLERK	
3100.00		0.00	124	50				
	143	Randall	Matos	RMATOS	650.121.2874	1987-07-30	ST_CLERK	
2600.00		0.00	124	50				
	144	Peter	Vargas	PVARGAS	650.121.2004	1987-07-31	ST_CLERK	
2500.00		0.00	124	50				
	145	John	Russell	JRUSSEL	011.44.1344.429268	1987-08-01	SA_MAN	
14000.00		0.40	100	80				
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1987-08-02	SA_MAN	
13500.00		0.30	100	80				

147   Alberto   Errazuriz   AERRAZUR   011.44.1344.429278   1987-08-03   SA_MAN
12000.00   0.30   100   80
148   Gerald   Cambraut   GCAMBRAU   011.44.1344.619268   1987-08-04   SA_MAN
11000.00   0.30   100   80
149   Eleni   Zlotkey   EZLOTKEY   011.44.1344.429018   1987-08-05   SA_MAN
10500.00   0.20   100   80
150   Peter   Tucker   PTUCKER   011.44.1344.129268   1987-08-06   SA_REP
10000.00   0.30   145   80
151   David   Bernstein   DBERNSTE   011.44.1344.345268   1987-08-07   SA_REP
9500.00   0.25   145   80
152   Peter   Hall   PHALL   011.44.1344.478968   1987-08-08   SA_REP
9000.00   0.25   145   80
153   Christopher   Olsen   COLSEN   011.44.1344.498718   1987-08-09   SA_REP
8000.00   0.20   145   80
154   Nanette   Cambraut   NCAMBRAU   011.44.1344.987668   1987-08-10   SA_REP
7500.00   0.20   145   80
155   Oliver   Tuvault   OTUVAULT   011.44.1344.486508   1987-08-11   SA_REP
7000.00   0.15   145   80
156   Janette   King   JKING   011.44.1345.429268   1987-08-12   SA_REP
10000.00   0.35   146   80
157   Patrick   Sully   PSULLY   011.44.1345.929268   1987-08-13   SA_REP
9500.00   0.35   146   80
158   Allan   McEwen   AMCEWEN   011.44.1345.829268   1987-08-14   SA_REP
9000.00   0.35   146   80
159   Lindsey   Smith   LSMITH   011.44.1345.729268   1987-08-15   SA_REP
8000.00   0.30   146   80
160   Louise   Doran   LDORAN   011.44.1345.629268   1987-08-16   SA_REP
7500.00   0.30   146   80
161   Sarath   Sewall   SSEWALL   011.44.1345.529268   1987-08-17   SA_REP
7000.00   0.25   146   80
162   Clara   Vishney   CVISHNEY   011.44.1346.129268   1987-08-18   SA_REP
10500.00   0.25   147   80
163   Danielle   Greene   DGREENE   011.44.1346.229268   1987-08-19   SA_REP
9500.00   0.15   147   80
164   Mattea   Marvins   MMARVINS   011.44.1346.329268   1987-08-20   SA_REP
7200.00   0.10   147   80
165   David   Lee   DLEE   011.44.1346.529268   1987-08-21   SA_REP
6800.00   0.10   147   80
166   Sundar   Ande   SANDE   011.44.1346.629268   1987-08-22   SA_REP
6400.00   0.10   147   80
167   Amit   Banda   ABANDA   011.44.1346.729268   1987-08-23   SA_REP
6200.00   0.10   147   80
168   Lisa   Ozer   LOZER   011.44.1343.929268   1987-08-24   SA_REP
11500.00   0.25   148   80
169   Harrison   Bloom   HBLOOM   011.44.1343.829268   1987-08-25   SA_REP
10000.00   0.20   148   80



170   Tayler	Fox	TFOX	011.44.1343.729268	1987-08-26	SA_REP	
9600.00	0.20	148	80			
171   William	Smith	WSMITH	011.44.1343.629268	1987-08-27	SA_REP	
7400.00	0.15	148	80			
172   Elizabeth	Bates	EBATES	011.44.1343.529268	1987-08-28	SA_REP	
7300.00	0.15	148	80			
173   Sundita	Kumar	SKUMAR	011.44.1343.329268	1987-08-29	SA_REP	
6100.00	0.10	148	80			
174   Ellen	Abel	EABEL	011.44.1644.429267	1987-08-30	SA_REP	
11000.00	0.30	149	80			
175   Alyssa	Hutton	AHUTTON	011.44.1644.429266	1987-08-31	SA_REP	
8800.00	0.25	149	80			
176   Jonathon	Taylor	JTAYLOR	011.44.1644.429265	1987-09-01	SA_REP	
8600.00	0.20	149	80			
177   Jack	Livingston	JLIVINGS	011.44.1644.429264	1987-09-02	SA_REP	
8400.00	0.20	149	80			
178   Kimberely	Grant	KGRANT	011.44.1644.429263	1987-09-03	SA_REP	
7000.00	0.15	149	0			
179   Charles	Johnson	CJOHNSON	011.44.1644.429262	1987-09-04	SA_REP	
6200.00	0.10	149	80			
180   Winston	Taylor	WTAYLOR	650.507.9876	1987-09-05	SH_CLERK	
3200.00	0.00	120	50			
181   Jean	Fleaur	JFLEAUR	650.507.9877	1987-09-06	SH_CLERK	
3100.00	0.00	120	50			
182   Martha	Sullivan	MSULLIVA	650.507.9878	1987-09-07	SH_CLERK	
2500.00	0.00	120	50			
183   Girard	Geoni	GGEONI	650.507.9879	1987-09-08	SH_CLERK	
2800.00	0.00	120	50			
184   Nandita	Sarchand	NSARCHAN	650.509.1876	1987-09-09	SH_CLERK	
4200.00	0.00	121	50			
185   Alexis	Bull	ABULL	650.509.2876	1987-09-10	SH_CLERK	
4100.00	0.00	121	50			
186   Julia	Dellinger	JDELLING	650.509.3876	1987-09-11	SH_CLERK	
3400.00	0.00	121	50			
187   Anthony	Cabrio	ACABRIO	650.509.4876	1987-09-12	SH_CLERK	
3000.00	0.00	121	50			
188   Kelly	Chung	KCHUNG	650.505.1876	1987-09-13	SH_CLERK	
3800.00	0.00	122	50			
189   Jennifer	Dilly	JDILLY	650.505.2876	1987-09-14	SH_CLERK	
3600.00	0.00	122	50			
190   Timothy	Gates	TGATES	650.505.3876	1987-09-15	SH_CLERK	
2900.00	0.00	122	50			
191   Randall	Perkins	RPERKINS	650.505.4876	1987-09-16	SH_CLERK	
2500.00	0.00	122	50			
192   Sarah	Bell	SBELL	650.501.1876	1987-09-17	SH_CLERK	
4000.00	0.00	123	50			



	193	Britney	Everett	BEVERETT	650.501.2876	1987-09-18	SH_CLERK	
3900.00		0.00	123	50				
	194	Samuel	McCain	SMCCAIN	650.501.3876	1987-09-19	SH_CLERK	
3200.00		0.00	123	50				
	195	Vance	Jones	VJONES	650.501.4876	1987-09-20	SH_CLERK	
2800.00		0.00	123	50				
	196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	
3100.00		0.00	124	50				
	197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	
3000.00		0.00	124	50				
	198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	
2600.00		0.00	124	50				
	199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	
2600.00		0.00	124	50				
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	
4400.00		0.00	101	10				
	201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	
13000.00		0.00	100	20				
	202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00
0.00		201	20					
	203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	
6500.00		0.00	101	40				
	204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	
10000.00		0.00	101	70				
	205	Shelley	Higgins	SHIGGINS	515.123.8080	1987-09-30	AC_MGR	
12000.00		0.00	101	110				
	206	William	Gietz	WGIETZ	515.123.8181	1987-10-01	AC_ACCOUNT	
8300.00		0.00	205	110				

**Code:**

```

SELECT *
FROM employees emp1
WHERE (1) = (
SELECT COUNT(DISTINCT(emp2.salary))
FROM employees emp2
WHERE emp2.salary > emp1.salary);

```

