



Java Enterprise Edition

ANUDIP FOUNDATION



Aggregate Functions and **Group by**

Time: 80 Min

1. Write a query to list the number of jobs available 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 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	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 COUNT(DISTINCT job_id)
```

```
FROM employees;
```

2. Write a query to get the total salaries payable to 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 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				

Code:

```
SELECT SUM(salary)
```

```
FROM employees;
```

3. Write a query to get the minimum salary 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	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

Code:

```
SELECT MIN(salary)
```

```
FROM employees;
```


4. Write a query to get the maximum salary of an employee working as a Programmer.

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	
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	
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	2600.00	0.00	114	

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 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 MAX(salary)
FROM employees
WHERE job_id = 'IT_PROG';

```

5. Write a query to get the average salary and number of employees working the department 90.

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	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 AVG(salary),count(*)
```

```
FROM employees
```

WHERE department_id = 90;

6. Write a query to get the highest, lowest, sum, and average salary 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	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	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 ROUND(MAX(salary),0) 'Maximum',
```

```

ROUND(MIN(salary),0) 'Minimum',

ROUND(SUM(salary),0) 'Sum',

ROUND(AVG(salary),0) 'Average'

FROM employees;

```

7. Write a query to get the number of employees with the same job.

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	
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 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 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

Code:

```
SELECT job_id, COUNT(*)
FROM employees
GROUP BY job_id;
```

8. Write a query to get the difference between the highest and lowest 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	
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	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 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 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 MAX(salary) - MIN(salary) DIFFERENCE
```

```
FROM employees;
```

9. Write a query to find the manager ID and the salary of the lowest-paid employee for that manager.

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	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		

```

SELECT manager_id, MIN(salary)
FROM employees
WHERE manager_id IS NOT NULL
GROUP BY manager_id
ORDER BY MIN(salary) DESC;

```

10. Write a query to get the department ID and the total salary payable in each 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	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 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 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 department_id, SUM(salary)
```

```
FROM employees
```

```
GROUP BY department_id;
```

11. Write a query to get the average salary for each job ID excluding programmer.

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	
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 0.00 108 100
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 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 Fleur 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 job_id, AVG(salary)
```

```
FROM employees
```

```
WHERE job_id <> 'IT_PROG'
```

```
GROUP BY job_id;
```

12. Write a query to get the total salary, maximum, minimum, average salary of employees (job ID wise), for department ID 90 only.

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 Frupp 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 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 Fleur 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				

```
SELECT job_id, SUM(salary), AVG(salary), MAX(salary), MIN(salary)
```

```
FROM employees
```

```
WHERE department_id = '90'
```

```
GROUP BY job_id;
```

13. Write a query to get the job ID and maximum salary of the employees where maximum salary is greater than or equal to \$4000.

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 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 TRAJRS 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 job_id, MAX(salary)
FROM employees
GROUP BY job_id
HAVING MAX(salary) >=4000;

```

14. Write a query to get the average salary for all departments employing more than 10 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 Frupp 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 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 Fleur 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				

```
SELECT department_id, AVG(salary), COUNT(*)
```

```
FROM employees
```

```
GROUP BY department_id
```

```
HAVING COUNT(*) > 10;
```