

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 65

Server version: 8.0.25 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;

Database
hr_db
information_schema
mysql
performance_schema
sakila
sys
world

7 rows in set (0.01 sec)

mysql> use hr_db;

Database changed

mysql> show tables;

Tables_in_hr_db
countries
departments
emp_details_view
employees
job_history
jobs
locations
regions

8 rows in set (0.02 sec)

mysql> select * from countries;

country_id	country_name	region_id
AR	Argentina	2
AU	Australia	3
BE	Belgium	1
BR	Brazil	2
CA	Canada	2
CH	Switzerland	1

CN	China	3
DE	Germany	1
DK	Denmark	1
EG	Egypt	4
FR	France	1
HK	HongKong	3
IL	Israel	4
IN	India	3
IT	Italy	1
JP	Japan	3
KW	Kuwait	4
MX	Mexico	2
NG	Nigeria	4
NL	Netherlands	1
SG	Singapore	3
UK	United Kingdom	1
US	United States of America	2
ZM	Zambia	4
ZW	Zimbabwe	4

+-----+

25 rows in set (0.01 sec)

mysql> select * from departments;

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

27 rows in set (0.00 sec)

```
mysql> select * from emp_details_view;
```

employee_id	job_id	manager_id	department_id	location_id	country_id	first_name	last_name	salary	commission_pct	department_name	job_title	city	state_province	country_name	region_name
200	AD_ASST	101	10	1700	US	Jennifer	Whalen	4400.00	NULL	Administration	Administration Assistant	Seattle	Washington	United States of America	Americas
201	MK_MAN	100	20	1800	CA	Michael	Hartstein	13000.00	NULL	Marketing	Marketing Manager	Toronto	Ontario	Canada	Americas
202	MK_REP	201	20	1800	CA	Pat	Fay	6000.00	NULL	Marketing	Marketing Representative	Toronto	Ontario	Canada	Americas
114	PU_MAN	100	30	1700	US	Den	Raphaely	11000.00	NULL	Purchasing	Purchasing Manager	Seattle	Washington	United States of America	Americas
115	PU_CLERK	114	30	1700	US	Alexander	Khoo	3100.00	NULL	Purchasing	Purchasing Clerk	Seattle	Washington	United States of America	Americas
116	PU_CLERK	114	30	1700	US	Shelli	Baida	2900.00	NULL	Purchasing	Purchasing Clerk	Seattle	Washington	United States of America	Americas
117	PU_CLERK	114	30	1700	US	Sigal	Tobias	2800.00	NULL	Purchasing	Purchasing Clerk	Seattle	Washington	United States of America	Americas
118	PU_CLERK	114	30	1700	US	Guy	Himuro	2600.00	NULL	Purchasing	Purchasing Clerk	Seattle	Washington	United States of America	Americas
119	PU_CLERK	114	30	1700	US	Karen	Colmenares	2500.00	NULL	Purchasing	Purchasing Clerk	Seattle	Washington	United States of America	Americas
203	HR_REP	101	40	2400	UK	Susan	Mavris	6500.00	NULL	Human Resources	Human Resources Representative	London	NULL	United Kingdom	Europe
120	ST_MAN	100	50	1500	US	Matthew	Weiss	8000.00	NULL	Shipping	Stock Manager	South San Francisco	California	United States of America	Americas
121	ST_MAN	100	50	1500	US	Adam	Fripp	8200.00	NULL	Shipping	Stock Manager	South San Francisco	California	United States of America	Americas
122	ST_MAN	100	50	1500	US	Payam	Kaufling	7900.00	NULL	Shipping	Stock Manager	South San Francisco	California	United States of America	Americas
123	ST_MAN	100	50	1500	US	Shanta	Vollman	6500.00	NULL	Shipping	Stock Manager	South San Francisco	California	United States of America	Americas
124	ST_MAN	100	50	1500	US	Kevin	Mourgos	5800.00	NULL	Shipping	Stock Manager	South San Francisco	California	United States of America	Americas

as	125	ST_CLERK	120	50	1500	US	Julia	Nayer	3200.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	126	ST_CLERK	120	50	1500	US	Irene	Mikkilineni	2700.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		America
s	127	ST_CLERK	120	50	1500	US	James	Landry	2400.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	128	ST_CLERK	120	50	1500	US	Steven	Markle	2200.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	129	ST_CLERK	121	50	1500	US	Laura	Bissot	3300.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	130	ST_CLERK	121	50	1500	US	Mozhe	Atkinson	2800.00	NUL
L Shipping		Stock Clerk			South San Francisco	California		United States of America		Americ
as	131	ST_CLERK	121	50	1500	US	James	Marlow	2500.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		America
s	132	ST_CLERK	121	50	1500	US	TJ	Olson	2100.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	133	ST_CLERK	122	50	1500	US	Jason	Mallin	3300.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	134	ST_CLERK	122	50	1500	US	Michael	Rogers	2900.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		America
s	135	ST_CLERK	122	50	1500	US	Ki	Gee	2400.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	136	ST_CLERK	122	50	1500	US	Hazel	Philtanker	2200.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		America
s	137	ST_CLERK	123	50	1500	US	Renske	Ladwig	3600.00	NUL
L Shipping		Stock Clerk			South San Francisco	California		United States of America		Americ
as	138	ST_CLERK	123	50	1500	US	Stephen	Stiles	3200.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	139	ST_CLERK	123	50	1500	US	John	Seo	2700.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	140	ST_CLERK	123	50	1500	US	Joshua	Patel	2500.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	141	ST_CLERK	124	50	1500	US	Trenna	Rajs	3500.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas
	142	ST_CLERK	124	50	1500	US	Curtis	Davies	3100.00	NULL
Shipping		Stock Clerk			South San Francisco	California		United States of America		Americas

143	ST_CLERK	124	50	1500	US	Randall	Matos	2600.00	NULL
Shipping	Stock Clerk		South San Francisco	California		United States of America	Americas		
144	ST_CLERK	124	50	1500	US	Peter	Vargas	2500.00	NULL
Shipping	Stock Clerk		South San Francisco	California		United States of America	Americas		
180	SH_CLERK	120	50	1500	US	Winston	Taylor	3200.00	NUL
L Shipping	Shipping Clerk		South San Francisco	California		United States of America	Ameri		
cas									
181	SH_CLERK	120	50	1500	US	Jean	Fleaur	3100.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	Americas		
182	SH_CLERK	120	50	1500	US	Martha	Sullivan	2500.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	Americ		
as									
183	SH_CLERK	120	50	1500	US	Girard	Geoni	2800.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	America		
s									
184	SH_CLERK	121	50	1500	US	Nandita	Sarchand	4200.00	NUL
L Shipping	Shipping Clerk		South San Francisco	California		United States of America	Ameri		
cas									
185	SH_CLERK	121	50	1500	US	Alexis	Bull	4100.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	Americas		
186	SH_CLERK	121	50	1500	US	Julia	Dellinger	3400.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	America		
s									
187	SH_CLERK	121	50	1500	US	Anthony	Cabrio	3000.00	NUL
L Shipping	Shipping Clerk		South San Francisco	California		United States of America	Ameri		
cas									
188	SH_CLERK	122	50	1500	US	Kelly	Chung	3800.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	America		
s									
189	SH_CLERK	122	50	1500	US	Jennifer	Dilly	3600.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	Americas		
190	SH_CLERK	122	50	1500	US	Timothy	Gates	2900.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	Americ		
as									
191	SH_CLERK	122	50	1500	US	Randall	Perkins	2500.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	Americ		
as									
192	SH_CLERK	123	50	1500	US	Sarah	Bell	4000.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	Americas		
193	SH_CLERK	123	50	1500	US	Britney	Everett	3900.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	America		
s									
194	SH_CLERK	123	50	1500	US	Samuel	McCain	3200.00	NUL
L Shipping	Shipping Clerk		South San Francisco	California		United States of America	Ameri		
cas									
195	SH_CLERK	123	50	1500	US	Vance	Jones	2800.00	NULL
Shipping	Shipping Clerk		South San Francisco	California		United States of America	America		

Shipping s	196	SH_CLERK	124	50	1500	US	Alana	Walsh	3100.00	NULL
	Shipping Clerk		South San Francisco		California		United States of America America			
	197	SH_CLERK	124	50	1500	US	Kevin	Feeney	3000.00	NULL
	Shipping Clerk		South San Francisco		California		United States of America Americ			
	198	SH_CLERK	124	50	1500	US	Donald	OConnell	2600.00	NUL
Shipping cas L	Shipping Clerk		South San Francisco		California		United States of America Ameri			
	199	SH_CLERK	124	50	1500	US	Douglas	Grant	2600.00	NULL
	Shipping Clerk		South San Francisco		California		United States of America Americ			
	103	IT_PROG	102	60	1400	US	Alexander	Hunold	9000.00	NULL
	Programmer		Southlake		Texas		United States of America Americas			
IT T	104	IT_PROG	103	60	1400	US	Bruce	Ernst	6000.00	NULL I
	Programmer		Southlake		Texas		United States of America Americas			
	105	IT_PROG	103	60	1400	US	David	Austin	4800.00	NULL I
	Programmer		Southlake		Texas		United States of America Americas			
	106	IT_PROG	103	60	1400	US	Valli	Pataballa	4800.00	NULL I
IT T	Programmer		Southlake		Texas		United States of America Americas			
	107	IT_PROG	103	60	1400	US	Diana	Lorentz	4200.00	NULL
	Programmer		Southlake		Texas		United States of America Americas			
	204	PR_REP	101	70	2700	DE	Hermann	Baer	10000.00	NULL
	Public Relations Representative		Munich		Bavaria		Germany Europe			
ales	145	SA_MAN	100	80	2500	UK	John	Russell	14000.00	0.40 S
	Sales Manager		Oxford		Oxford		United Kingdom Europe			
	146	SA_MAN	100	80	2500	UK	Karen	Partners	13500.00	0.30
	Sales Manager		Oxford		Oxford		United Kingdom Europe			
	147	SA_MAN	100	80	2500	UK	Alberto	Errazuriz	12000.00	0.30
Sales	Sales Manager		Oxford		Oxford		United Kingdom Europe			
	148	SA_MAN	100	80	2500	UK	Gerald	Cambrault	11000.00	0.30
	Sales Manager		Oxford		Oxford		United Kingdom Europe			
	149	SA_MAN	100	80	2500	UK	Eleni	Zlotkey	10500.00	0.20 S
	Sales Manager		Oxford		Oxford		United Kingdom Europe			
es	150	SA_REP	145	80	2500	UK	Peter	Tucker	10000.00	0.30 Sal
	Sales Representative		Oxford		Oxford		United Kingdom Europe			
	151	SA_REP	145	80	2500	UK	David	Bernstein	9500.00	0.25 S
	Sales Representative		Oxford		Oxford		United Kingdom Europe			
	152	SA_REP	145	80	2500	UK	Peter	Hall	9000.00	0.25 Sales
ales	Sales Representative		Oxford		Oxford		United Kingdom Europe			
	153	SA_REP	145	80	2500	UK	Christopher	Olsen	8000.00	0.20 S
	Sales Representative		Oxford		Oxford		United Kingdom Europe			
	154	SA_REP	145	80	2500	UK	Nanette	Cambrault	7500.00	0.20
	Sales Representative		Oxford		Oxford		United Kingdom Europe			
es	155	SA_REP	145	80	2500	UK	Oliver	Tuvault	7000.00	0.15 Sal
	Sales Representative		Oxford		Oxford		United Kingdom Europe			
	156	SA_REP	146	80	2500	UK	Janette	King	10000.00	0.35 Sal
	Sales Representative		Oxford		Oxford		United Kingdom Europe			
	157	SA_REP	146	80	2500	UK	Patrick	Sully	9500.00	0.35 Sale
s	Sales Representative		Oxford		Oxford		United Kingdom Europe			
	158	SA_REP	146	80	2500	UK	Allan	McEwen	9000.00	0.35 S
ales	Sales Representative		Oxford		Oxford		United Kingdom Europe			

Sales	159	SA_REP	146	80	2500	UK	Lindsey	Smith	8000.00	0.30	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	160	SA_REP	146	80	2500	UK	Louise	Doran	7500.00	0.30	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	161	SA_REP	146	80	2500	UK	Sarath	Sewall	7000.00	0.25	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	162	SA_REP	147	80	2500	UK	Clara	Vishney	10500.00	0.25	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	163	SA_REP	147	80	2500	UK	Danielle	Greene	9500.00	0.15	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	164	SA_REP	147	80	2500	UK	Mattea	Marvins	7200.00	0.10	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	165	SA_REP	147	80	2500	UK	David	Lee	6800.00	0.10	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	166	SA_REP	147	80	2500	UK	Sundar	Ande	6400.00	0.10	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	167	SA_REP	147	80	2500	UK	Amit	Banda	6200.00	0.10	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	168	SA_REP	148	80	2500	UK	Lisa	Ozer	11500.00	0.25	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	169	SA_REP	148	80	2500	UK	Harrison	Bloom	10000.00	0.20	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	170	SA_REP	148	80	2500	UK	Taylor	Fox	9600.00	0.20	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	171	SA_REP	148	80	2500	UK	William	Smith	7400.00	0.15	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	172	SA_REP	148	80	2500	UK	Elizabeth	Bates	7300.00	0.15	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	173	SA_REP	148	80	2500	UK	Sundita	Kumar	6100.00	0.10	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	174	SA_REP	149	80	2500	UK	Ellen	Abel	11000.00	0.30	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	175	SA_REP	149	80	2500	UK	Alyssa	Hutton	8800.00	0.25	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	176	SA_REP	149	80	2500	UK	Jonathon	Taylor	8600.00	0.20	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	177	SA_REP	149	80	2500	UK	Jack	Livingston	8400.00	0.20	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
Sales	179	SA_REP	149	80	2500	UK	Charles	Johnson	6200.00	0.10	Sales
		Sales Representative		Oxford		Oxford	United Kingdom	Europe			
L Executive	100	AD_PRES	NULL	90	1700	US	Steven	King	24000.00		NULL
		President		Seattle		Washington	United States of America	Americas			
Executive	101	AD_VP	100	90	1700	US	Neena	Kochhar	17000.00		NULL
		Administration Vice President		Seattle		Washington	United States of America	Americas			
Executive	102	AD_VP	100	90	1700	US	Lex	De Haan	17000.00		NULL
		Administration Vice President		Seattle		Washington	United States of America	Americas			
L Finance	108	FI_MGR	101	100	1700	US	Nancy	Greenberg	12000.00		NULL
		Finance Manager		Seattle		Washington	United States of America	Americas			
L Finance	109	FI_ACCOUNT	108	100	1700	US	Daniel	Faviet	9000.00		NULL
		Accountant		Seattle		Washington	United States of America	Americas			

```
|      110 | FI_ACCOUNT |      108 |      100 |      1700 | US       | John   | Chen   | 8200.00 | NUL
L | Finance    | Accountant          | Seattle        | Washington    | United States of America | Americas
|
|      111 | FI_ACCOUNT |      108 |      100 |      1700 | US       | Ismael  | Sciarra | 7700.00 | NUL
L | Finance    | Accountant          | Seattle        | Washington    | United States of America | Americas
|
|      112 | FI_ACCOUNT |      108 |      100 |      1700 | US       | Jose Manuel | Urman   | 7800.00 | 
NULL | Finance    | Accountant          | Seattle        | Washington    | United States of America | Ameri
cas |
|      113 | FI_ACCOUNT |      108 |      100 |      1700 | US       | Luis    | Popp    | 6900.00 | NULL
| Finance    | Accountant          | Seattle        | Washington    | United States of America | Americas |
|      205 | AC_MGR     |      101 |      110 |      1700 | US       | Shelley | Higgins | 12000.00 | NUL
L | Accounting | Accounting Manager  | Seattle        | Washington    | United States of America | Ameri
cas |
|      206 | AC_ACCOUNT |      205 |      110 |      1700 | US       | William | Gietz   | 8300.00 | NU
LL | Accounting | Public Accountant  | Seattle        | Washington    | United States of America | Ameri
cas |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
---+
```

```
mysql> select * from employees;
```


NULL	108	100								
L	113	Luis	Popp	LPOPP	515.124.4567	1999-12-07	FI_ACCOUNT	6900.00		NUL
	108		100							
	114	Den	Raphaely	DRAPHEAL	515.127.4561	1994-12-07	PU_MAN	11000.00		
NULL	100		30							
	115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100.00		N
ULL	114		30							
	116	Shelli	Baida	SBAIDA	515.127.4563	1997-12-24	PU_CLERK	2900.00		NUL
L	114		30							
	117	Sigal	Tobias	STOBIAS	515.127.4564	1997-07-24	PU_CLERK	2800.00		NU
LL	114		30							
	118	Guy	Himuro	GHIMURO	515.127.4565	1998-11-15	PU_CLERK	2600.00		N
ULL	114		30							
	119	Karen	Colmenares	KCOLMENA	515.127.4566	1999-08-10	PU_CLERK	2500.00		
NULL	114		30							
	120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000.00		NU
LL	100		50							
	121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00		NULL
	100		50							
	122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900.00		N
ULL	100		50							
	123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00		
NULL	100		50							
	124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16	ST_MAN	5800.00		
NULL	100		50							
	125	Julia	Nayer	JNAYER	650.124.1214	1997-07-16	ST_CLERK	3200.00		NUL
L	120		50							
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-09-28	ST_CLERK	2700.00		NU
LL	120		50							
	127	James	Landry	JLANDRY	650.124.1334	1999-01-14	ST_CLERK	2400.00		N
ULL	120		50							
	128	Steven	Markle	SMARKLE	650.124.1434	2000-03-08	ST_CLERK	2200.00		N
ULL	120		50							
	129	Laura	Bissot	LBISSOT	650.124.5234	1997-08-20	ST_CLERK	3300.00		NUL
L	121		50							
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30	ST_CLERK	2800.00		
NULL	121		50							
	131	James	Marlow	JAMRLOW	650.124.7234	1997-02-16	ST_CLERK	2500.00		
NULL	121		50							
	132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00		NUL
L	121		50							
	133	Jason	Mallin	JMALLIN	650.127.1934	1996-06-14	ST_CLERK	3300.00		NU
LL	122		50							
	134	Michael	Rogers	MROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00		
NULL	122		50							
	135	Ki	Gee	KGEE	650.127.1734	1999-12-12	ST_CLERK	2400.00		NULL
	122		50							
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	2000-02-06	ST_CLERK	2200.00		N
ULL	122		50							
	137	Renske	Ladwig	RLADWIG	650.121.1234	1995-07-14	ST_CLERK	3600.00		
NULL	123		50							
	138	Stephen	Stiles	SSTILES	650.121.2034	1997-10-26	ST_CLERK	3200.00		NUL
L	123		50							

123	50								
L	140	Joshua	Patel	JPATEL	650.121.1834	1998-04-06	ST_CLERK	2500.00	NUL
	123	50							
	141	Trenna	Rajs	TRAJs	650.121.8009	1995-10-17	ST_CLERK	3500.00	NULL
	124	50							
	142	Curtis	Davies	CDAVIES	650.121.2994	1997-01-29	ST_CLERK	3100.00	NU
LL	124	50							
	143	Randall	Matos	RMATOS	650.121.2874	1998-03-15	ST_CLERK	2600.00	N
ULL	124	50							
	144	Peter	Vargas	PVARGAS	650.121.2004	1998-07-09	ST_CLERK	2500.00	NU
LL	124	50							
	145	John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01	SA_MAN	14000.00	0.
40	100	80							
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05	SA_MAN	13500.00	
0.30	100	80							
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10	SA_MAN	12000.00	
0.30	100	80							
	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1999-10-15	SA_MAN	11000.00	
0.30	100	80							
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29	SA_MAN	10500.00	
0.20	100	80							
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30	SA_REP	10000.00	0.
30	145	80							
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500.00	
0.25	145	80							
	152	Peter	Hall	PHALL	011.44.1344.478968	1997-08-20	SA_REP	9000.00	0.25
	145	80							
	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0
.20	145	80							
	154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00	
0.20	145	80							
	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1999-11-23	SA_REP	7000.00	
0.15	145	80							
	156	Janette	King	JKING	011.44.1345.429268	1996-01-30	SA_REP	10000.00	0.35
	146	80							
	157	Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04	SA_REP	9500.00	0.35
	146	80							
	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01	SA_REP	9000.00	
0.35	146	80							
	159	Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10	SA_REP	8000.00	0.3
0	146	80							
	160	Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15	SA_REP	7500.00	0.
30	146	80							
	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.
25	146	80							
	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1997-11-11	SA_REP	10500.00	
0.25	147	80							
	163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	
0.15	147	80							
	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	2000-01-24	SA_REP	7200.00	
0.10	147	80							

[illegible]

```

ULL |      123 |      50 |
|      194 | Samuel | McCain | SMCCAIN | 650.501.3876 | 1998-07-01 | SH_CLERK | 3200.00 |
NULL |      123 |      50 |
|      195 | Vance | Jones | VJONES | 650.501.4876 | 1999-03-17 | SH_CLERK | 2800.00 |      NU
LL |      123 |      50 |
|      196 | Alana | Walsh | AWALSH | 650.507.9811 | 1998-04-24 | SH_CLERK | 3100.00 |      N
ULL |      124 |      50 |
|      197 | Kevin | Feeney | KFEENEY | 650.507.9822 | 1998-05-23 | SH_CLERK | 3000.00 |      N
ULL |      124 |      50 |
|      198 | Donald | OConnell | DOCONNEL | 650.507.9833 | 1999-06-21 | SH_CLERK | 2600.00 |
NULL |      124 |      50 |
|      199 | Douglas | Grant | DGRANT | 650.507.9844 | 2000-01-13 | SH_CLERK | 2600.00 |      N
ULL |      124 |      50 |
|      200 | Jennifer | Whalen | JWHALEN | 515.123.4444 | 1987-09-17 | AD_ASST | 4400.00 |      N
ULL |      101 |      10 |
|      201 | Michael | Hartstein | MHARTSTE | 515.123.5555 | 1996-02-17 | MK_MAN | 13000.00 |
NULL |      100 |      20 |
|      202 | Pat | Fay | PFAY | 603.123.6666 | 1997-08-17 | MK_REP | 6000.00 |      NULL |
201 |      20 |
|      203 | Susan | Mavris | SMAVRIS | 515.123.7777 | 1994-06-07 | HR_REP | 6500.00 |      NUL
L |      101 |      40 |
|      204 | Hermann | Baer | HBAER | 515.123.8888 | 1994-06-07 | PR_REP | 10000.00 |      NUL
L |      101 |      70 |
|      205 | Shelley | Higgins | SHIGGINS | 515.123.8080 | 1994-06-07 | AC_MGR | 12000.00 |      N
ULL |      101 |      110 |
|      206 | William | Gietz | WGIETZ | 515.123.8181 | 1994-06-07 | AC_ACCOUNT | 8300.00 |
NULL |      205 |      110 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+
107 rows in set (0.00 sec)

```

```

mysql> select * from job_history;
+-----+-----+-----+-----+-----+
| employee_id | start_date | end_date | job_id | department_id |
+-----+-----+-----+-----+-----+
|      101 | 1989-09-21 | 1993-10-27 | AC_ACCOUNT |      110 |
|      101 | 1993-10-28 | 1997-03-15 | AC_MGR |      110 |
|      102 | 1993-01-13 | 1998-07-24 | IT_PROG |      60 |
|      114 | 1998-03-24 | 1999-12-31 | ST_CLERK |      50 |
|      122 | 1999-01-01 | 1999-12-31 | ST_CLERK |      50 |
|      176 | 1998-03-24 | 1998-12-31 | SA_REP |      80 |
|      176 | 1999-01-01 | 1999-12-31 | SA_MAN |      80 |
|      200 | 1987-09-17 | 1993-06-17 | AD_ASST |      90 |
|      200 | 1994-07-01 | 1998-12-31 | AC_ACCOUNT |      90 |
|      201 | 1996-02-17 | 1999-12-19 | MK_REP |      20 |
+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

```

```

mysql> select * from jobs;
+-----+-----+-----+-----+
| job_id | job_title | min_salary | max_salary |
+-----+-----+-----+-----+
| AC_ACCOUNT | Public Accountant |      4200 |      9000 |
| AC_MGR | Accounting Manager |      8200 |     16000 |

```

AD_ASST	Administration Assistant	3000	6000
AD PRES	President	20000	40000
AD_VP	Administration Vice President	15000	30000
FI_ACCOUNT	Accountant	4200	9000
FI_MGR	Finance Manager	8200	16000
HR_REP	Human Resources Representative	4000	9000
IT_PROG	Programmer	4000	10000
MK_MAN	Marketing Manager	9000	15000
MK_REP	Marketing Representative	4000	9000
PR_REP	Public Relations Representative	4500	10500
PU_CLERK	Purchasing Clerk	2500	5500
PU_MAN	Purchasing Manager	8000	15000
SA_MAN	Sales Manager	10000	20000
SA_REP	Sales Representative	6000	12000
SH_CLERK	Shipping Clerk	2500	5500
ST_CLERK	Stock Clerk	2000	5000
ST_MAN	Stock Manager	5500	8500

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

19 rows in set (0.01 sec)

mysql> select * from locations;

location_id	street_address	postal_code	city	state_province	country_id
1000	1297 Via Cola di Rie	00989	Roma	NULL	IT
1100	93091 Calle della Testa	10934	Venice	NULL	IT
1200	2017 Shinjuku-ku	1689	Tokyo	Tokyo Prefecture	JP
1300	9450 Kamiya-cho	6823	Hiroshima	NULL	JP
1400	2014 Jabberwocky Rd	26192	Southlake	Texas	US
1500	2011 Interiors Blvd	99236	South San Francisco	California	US
1600	2007 Zagora St	50090	South Brunswick	New Jersey	US
1700	2004 Charade Rd	98199	Seattle	Washington	US
1800	147 Spadina Ave	M5V 2L7	Toronto	Ontario	CA
1900	6092 Boxwood St	YSW 9T2	Whitehorse	Yukon	CA
2000	40-5-12 Laogianggen	190518	Beijing	NULL	CN
2100	1298 Vileparle (E)	490231	Bombay	Maharashtra	IN
2200	12-98 Victoria Street	2901	Sydney	New South Wales	AU
2300	198 Clementi North	540198	Singapore	NULL	SG
2400	8204 Arthur St	NULL	London	NULL	UK
2500	Magdalen Centre, The Oxford Science Park	OX9 9ZB	Oxford	Oxford	UK
2600	9702 Chester Road	09629850293	Stretford	Manchester	UK
2700	Schwanthalerstr. 7031	80925	Munich	Bavaria	DE
2800	Rua Frei Caneca 1360	01307-002	Sao Paulo	Sao Paulo	BR
2900	20 Rue des Corps-Saints	1730	Geneva	Geneve	CH
3000	Murtenstrasse 921	3095	Bern	BE	CH
3100	Pieter Breughelstraat 837	3029SK	Utrecht	Utrecht	NL
3200	Mariano Escobedo 9991	11932	Mexico City	Distrito Federal,	MX

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

23 rows in set (0.00 sec)

mysql> select * from regions;

region_id	region_name
-----------	-------------

```
| 1 | Europe |
| 2 | Americas |
| 3 | Asia |
| 4 | Middle East and Africa |
```

```
+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> select * from 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 | NULL
| NULL | 90 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1989-09-21 | AD_VP | 17000.00 |
NULL | 100 | 90 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1993-01-13 | AD_VP | 17000.00 | NU
LL | 100 | 90 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1990-01-03 | IT_PROG | 9000.00 |
NULL | 102 | 60 |
| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1991-05-21 | IT_PROG | 6000.00 | NULL
| 103 | 60 |
| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1997-06-25 | IT_PROG | 4800.00 | NUL
L | 103 | 60 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1998-02-05 | IT_PROG | 4800.00 | NU
LL | 103 | 60 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1999-02-07 | IT_PROG | 4200.00 | N
ULL | 103 | 60 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI_MGR | 12000.00 |
NULL | 101 | 100 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1994-08-16 | FI_ACCOUNT | 9000.00 | N
ULL | 108 | 100 |
| 110 | John | Chen | JCHEN | 515.124.4269 | 1997-09-28 | FI_ACCOUNT | 8200.00 | NU
LL | 108 | 100 |
| 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1997-09-30 | FI_ACCOUNT | 7700.00 | N
ULL | 108 | 100 |
| 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1998-03-07 | FI_ACCOUNT | 7800.00 |
NULL | 108 | 100 |
| 113 | Luis | Popp | LPOPP | 515.124.4567 | 1999-12-07 | FI_ACCOUNT | 6900.00 | NUL
L | 108 | 100 |
| 114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1994-12-07 | PU_MAN | 11000.00 |
NULL | 100 | 30 |
| 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1995-05-18 | PU_CLERK | 3100.00 | N
ULL | 114 | 30 |
| 116 | Shelli | Baida | SBAIDA | 515.127.4563 | 1997-12-24 | PU_CLERK | 2900.00 | NUL
L | 114 | 30 |
| 117 | Sigal | Tobias | STOBIAS | 515.127.4564 | 1997-07-24 | PU_CLERK | 2800.00 | NU
LL | 114 | 30 |
| 118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1998-11-15 | PU_CLERK | 2600.00 | N
ULL | 114 | 30 |
| 119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 1999-08-10 | PU_CLERK | 2500.00 |
NULL | 114 | 30 |
```

120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000.00	NU
LL 100 50								
121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00	NULL
100 50								
122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900.00	N
ULL 100 50								
123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00	
NULL 100 50								
124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16	ST_MAN	5800.00	
NULL 100 50								
125	Julia	Nayer	JNAYER	650.124.1214	1997-07-16	ST_CLERK	3200.00	NUL
L 120 50								
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-09-28	ST_CLERK	2700.00	NU
LL 120 50								
127	James	Landry	JLANDRY	650.124.1334	1999-01-14	ST_CLERK	2400.00	N
ULL 120 50								
128	Steven	Markle	SMARKLE	650.124.1434	2000-03-08	ST_CLERK	2200.00	N
ULL 120 50								
129	Laura	Bissot	LBISSOT	650.124.5234	1997-08-20	ST_CLERK	3300.00	NUL
L 121 50								
130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30	ST_CLERK	2800.00	
NULL 121 50								
131	James	Marlow	JAMRLOW	650.124.7234	1997-02-16	ST_CLERK	2500.00	
NULL 121 50								
132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	NUL
L 121 50								
133	Jason	Mallin	JMALLIN	650.127.1934	1996-06-14	ST_CLERK	3300.00	NU
LL 122 50								
134	Michael	Rogers	MROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00	
NULL 122 50								
135	Ki	Gee	KGEE	650.127.1734	1999-12-12	ST_CLERK	2400.00	NULL
122 50								
136	Hazel	Philtanker	HPHILTAN	650.127.1634	2000-02-06	ST_CLERK	2200.00	N
ULL 122 50								
137	Renske	Ladwig	RLADWIG	650.121.1234	1995-07-14	ST_CLERK	3600.00	
NULL 123 50								
138	Stephen	Stiles	SSTILES	650.121.2034	1997-10-26	ST_CLERK	3200.00	NUL
L 123 50								
139	John	Seo	JSEO	650.121.2019	1998-02-12	ST_CLERK	2700.00	NULL
123 50								
140	Joshua	Patel	JPATEL	650.121.1834	1998-04-06	ST_CLERK	2500.00	NUL
L 123 50								
141	Trenna	Rajs	TRAJS	650.121.8009	1995-10-17	ST_CLERK	3500.00	NULL
124 50								
142	Curtis	Davies	CDAVIES	650.121.2994	1997-01-29	ST_CLERK	3100.00	NU
LL 124 50								
143	Randall	Matos	RMATOS	650.121.2874	1998-03-15	ST_CLERK	2600.00	N
ULL 124 50								
144	Peter	Vargas	PVARGAS	650.121.2004	1998-07-09	ST_CLERK	2500.00	NU
LL 124 50								
145	John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01	SA_MAN	14000.00	0.
40 100 80								
146	Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05	SA_MAN	13500.00	
0.30 100 80								

0.30	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10	SA_MAN	12000.00	
	100		80						
0.30	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1999-10-15	SA_MAN	11000.00	
	100		80						
0.20	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29	SA_MAN	10500.00	
	100		80						
0.30	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30	SA_REP	10000.00	0.
	145		80						
0.25	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500.00	
	145		80						
	152	Peter	Hall	PHALL	011.44.1344.478968	1997-08-20	SA_REP	9000.00	0.25
	145		80						
0.20	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0
	145		80						
0.20	154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00	
	145		80						
0.15	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1999-11-23	SA_REP	7000.00	
	145		80						
	156	Janette	King	JKING	011.44.1345.429268	1996-01-30	SA_REP	10000.00	0.35
	146		80						
	157	Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04	SA_REP	9500.00	0.35
	146		80						
0.35	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01	SA_REP	9000.00	
	146		80						
0	159	Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10	SA_REP	8000.00	0.3
	146		80						
0.30	160	Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15	SA_REP	7500.00	0.
	146		80						
0.25	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.
	146		80						
0.25	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1997-11-11	SA_REP	10500.00	
	147		80						
0.15	163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	
	147		80						
0.10	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	2000-01-24	SA_REP	7200.00	
	147		80						
	165	David	Lee	DLEE	011.44.1346.529268	2000-02-23	SA_REP	6800.00	0.10
	147		80						
0	166	Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.1
	147		80						
0.10	167	Amit	Banda	ABANDA	011.44.1346.729268	2000-04-21	SA_REP	6200.00	0.
	147		80						
	168	Lisa	Ozer	LOZER	011.44.1343.929268	1997-03-11	SA_REP	11500.00	0.25
	148		80						
0.20	169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1998-03-23	SA_REP	10000.00	
	148		80						
	170	Taylor	Fox	TFOX	011.44.1343.729268	1998-01-24	SA_REP	9600.00	0.20
	148		80						
0.15	171	William	Smith	WSMITH	011.44.1343.629268	1999-02-23	SA_REP	7400.00	0.
	148		80						
0.05	172	Elizabeth	Bates	EBATES	011.44.1343.529268	1999-03-24	SA_REP	7300.00	0.1
	148		80						
0.10	173	Sundita	Kumar	SKUMAR	011.44.1343.329268	2000-04-21	SA_REP	6100.00	0
	148		80						

	174	Ellen	Abel	EABEL	011.44.1644.429267	1996-05-11	SA_REP	11000.00		0.30
	149		80							
	175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	1997-03-19	SA_REP	8800.00		0
.25		149		80						
	176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	1998-03-24	SA_REP	8600.00		0
.20		149		80						
	177	Jack	Livingston	JLIVINGS	011.44.1644.429264	1998-04-23	SA_REP	8400.00		0.
20		149		80						
	178	Kimberly	Grant	KGRANT	011.44.1644.429263	1999-05-24	SA_REP	7000.00		
0.15		149		NULL						
	179	Charles	Johnson	CJOHNSON	011.44.1644.429262	2000-01-04	SA_REP	6200.00		
0.10		149		80						
	180	Winston	Taylor	WTAYLOR	650.507.9876	1998-01-24	SH_CLERK	3200.00		
NULL		120		50						
	181	Jean	Fleaur	JFLEAUR	650.507.9877	1998-02-23	SH_CLERK	3100.00		NUL
L		120		50						
	182	Martha	Sullivan	MSULLIVA	650.507.9878	1999-06-21	SH_CLERK	2500.00		
NULL		120		50						
	183	Girard	Geoni	GGEONI	650.507.9879	2000-02-03	SH_CLERK	2800.00		NU
LL		120		50						
	184	Nandita	Sarchand	NSARCHAN	650.509.1876	1996-01-27	SH_CLERK	4200.00		
NULL		121		50						
	185	Alexis	Bull	ABULL	650.509.2876	1997-02-20	SH_CLERK	4100.00		NUL
L		121		50						
	186	Julia	Dellinger	JDELLING	650.509.3876	1998-06-24	SH_CLERK	3400.00		NU
LL		121		50						
	187	Anthony	Cabrio	ACABRIO	650.509.4876	1999-02-07	SH_CLERK	3000.00		N
ULL		121		50						
	188	Kelly	Chung	KCHUNG	650.505.1876	1997-06-14	SH_CLERK	3800.00		N
ULL		122		50						
	189	Jennifer	Dilly	JDILLY	650.505.2876	1997-08-13	SH_CLERK	3600.00		NUL
L		122		50						
	190	Timothy	Gates	TGATES	650.505.3876	1998-07-11	SH_CLERK	2900.00		N
ULL		122		50						
	191	Randall	Perkins	RPERKINS	650.505.4876	1999-12-19	SH_CLERK	2500.00		N
ULL		122		50						
	192	Sarah	Bell	SBELL	650.501.1876	1996-02-04	SH_CLERK	4000.00		NULL
	123		50							
	193	Britney	Everett	BEVERETT	650.501.2876	1997-03-03	SH_CLERK	3900.00		N
ULL		123		50						
	194	Samuel	McCain	SMCCAIN	650.501.3876	1998-07-01	SH_CLERK	3200.00		
NULL		123		50						
	195	Vance	Jones	VJONES	650.501.4876	1999-03-17	SH_CLERK	2800.00		NU
LL		123		50						
	196	Alana	Walsh	AWALSH	650.507.9811	1998-04-24	SH_CLERK	3100.00		N
ULL		124		50						
	197	Kevin	Feeney	KFEENEY	650.507.9822	1998-05-23	SH_CLERK	3000.00		N
ULL		124		50						
	198	Donald	OConnell	DOCONNEL	650.507.9833	1999-06-21	SH_CLERK	2600.00		
NULL		124		50						
	199	Douglas	Grant	DGRANT	650.507.9844	2000-01-13	SH_CLERK	2600.00		N
ULL		124		50						
	200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-17	AD_ASST	4400.00		N
ULL		101		10						

201	Michael	Hartstein	MHARTSTE	515.123.5555	1996-02-17	MK_MAN	13000.00	
NULL	100	20						
202	Pat	Fay	PFAY	603.123.6666	1997-08-17	MK_REP	6000.00	NULL
201	20							
203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NUL
L	101	40						
204	Hermann	Baer	HBAER	515.123.8888	1994-06-07	PR_REP	10000.00	NUL
L	101	70						
205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	N
ULL	101	110						
206	William	Gietz	WGIETZ	515.123.8181	1994-06-07	AC_ACCOUNT	8300.00	
NULL	205	110						

+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+
107 rows in set (0.00 sec)

mysql> select * from 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		NULL	
NULL		90								
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00			
NULL	100	90								
102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00		NU	
LL	100	90								
103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00			
NULL	102	60								
104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000.00		NULL	
	103	60								
105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800.00		NUL	
L	103	60								
106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00		NU	
LL	103	60								
107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00		N	
ULL	103	60								
108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00			
NULL	101	100								
109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00		N	
ULL	108	100								
110	John	Chen	JCHEN	515.124.4269	1997-09-28	FI_ACCOUNT	8200.00		NU	
LL	108	100								
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1997-09-30	FI_ACCOUNT	7700.00		N	
ULL	108	100								
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00			
NULL	108	100								
113	Luis	Popp	LPOPP	515.124.4567	1999-12-07	FI_ACCOUNT	6900.00		NUL	
L	108	100								
114	Den	Raphaely	DRAPHEAL	515.127.4561	1994-12-07	PU_MAN	11000.00			
NULL	100	30								
115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100.00		N	

[illegible]

LL	124	50								
	143 Randall	Matos	RMATOS	650.121.2874	1998-03-15 ST_CLERK	2600.00		N		
ULL	124	50								
	144 Peter	Vargas	PVARGAS	650.121.2004	1998-07-09 ST_CLERK	2500.00		NU		
LL	124	50								
	145 John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01 SA_MAN	14000.00		0.		
40	100	80								
	146 Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05 SA_MAN	13500.00				
0.30	100	80								
	147 Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10 SA_MAN	12000.00				
0.30	100	80								
	148 Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1999-10-15 SA_MAN	11000.00				
0.30	100	80								
	149 Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29 SA_MAN	10500.00				
0.20	100	80								
	150 Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30 SA_REP	10000.00		0.		
30	145	80								
	151 David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24 SA_REP	9500.00				
0.25	145	80								
	152 Peter	Hall	PHALL	011.44.1344.478968	1997-08-20 SA_REP	9000.00		0.25		
	145	80								
	153 Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30 SA_REP	8000.00		0		
.20	145	80								
	154 Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1998-12-09 SA_REP	7500.00				
0.20	145	80								
	155 Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1999-11-23 SA_REP	7000.00				
0.15	145	80								
	156 Janette	King	JKING	011.44.1345.429268	1996-01-30 SA_REP	10000.00		0.35		
	146	80								
	157 Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04 SA_REP	9500.00		0.35		
	146	80								
	158 Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01 SA_REP	9000.00				
0.35	146	80								
	159 Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10 SA_REP	8000.00		0.3		
0	146	80								
	160 Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15 SA_REP	7500.00		0.		
30	146	80								
	161 Sarath	Sewall	SSEWALL	011.44.1345.529268	1998-11-03 SA_REP	7000.00		0.		
25	146	80								
	162 Clara	Vishney	CVISHNEY	011.44.1346.129268	1997-11-11 SA_REP	10500.00				
0.25	147	80								
	163 Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19 SA_REP	9500.00				
0.15	147	80								
	164 Mattea	Marvins	MMARVINS	011.44.1346.329268	2000-01-24 SA_REP	7200.00				
0.10	147	80								
	165 David	Lee	DLEE	011.44.1346.529268	2000-02-23 SA_REP	6800.00		0.10		
	147	80								
	166 Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24 SA_REP	6400.00		0.1		

[illegible]

Sigal	Tobias	PU_CLERK	
Guy	Himuro	PU_CLERK	
Karen	Colmenares	PU_CLERK	
Matthew	Weiss	ST_MAN	
Adam	Fripp	ST_MAN	
Payam	Kaufling	ST_MAN	
Shanta	Vollman	ST_MAN	
Kevin	Mourgos	ST_MAN	
Julia	Nayer	ST_CLERK	
Irene	Mikkilineni	ST_CLERK	
James	Landry	ST_CLERK	
Steven	Markle	ST_CLERK	
Laura	Bissot	ST_CLERK	
Mozhe	Atkinson	ST_CLERK	
James	Marlow	ST_CLERK	
TJ	Olson	ST_CLERK	
Jason	Mallin	ST_CLERK	
Michael	Rogers	ST_CLERK	
Ki	Gee	ST_CLERK	
Hazel	Philtanker	ST_CLERK	
Renske	Ladwig	ST_CLERK	
Stephen	Stiles	ST_CLERK	
John	Seo	ST_CLERK	
Joshua	Patel	ST_CLERK	
Trenna	Rajs	ST_CLERK	
Curtis	Davies	ST_CLERK	
Randall	Matos	ST_CLERK	
Peter	Vargas	ST_CLERK	
John	Russell	SA_MAN	
Karen	Partners	SA_MAN	
Alberto	Errazuriz	SA_MAN	
Gerald	Cambrault	SA_MAN	
Eleni	Zlotkey	SA_MAN	
Peter	Tucker	SA_REP	
David	Bernstein	SA_REP	
Peter	Hall	SA_REP	
Christopher	Olsen	SA_REP	
Nanette	Cambrault	SA_REP	
Oliver	Tuvault	SA_REP	
Janette	King	SA_REP	
Patrick	Sully	SA_REP	
Allan	McEwen	SA_REP	
Lindsey	Smith	SA_REP	
Louise	Doran	SA_REP	
Sarath	Sewall	SA_REP	
Clara	Vishney	SA_REP	
Danielle	Greene	SA_REP	
Mattea	Marvins	SA_REP	
David	Lee	SA_REP	
Sundar	Ande	SA_REP	
Amit	Banda	SA_REP	
Lisa	Ozer	SA_REP	
Harrison	Bloom	SA_REP	
Tayler	Fox	SA_REP	

William	Smith	SA_REP
Elizabeth	Bates	SA_REP
Sundita	Kumar	SA_REP
Ellen	Abel	SA_REP
Alyssa	Hutton	SA_REP
Jonathon	Taylor	SA_REP
Jack	Livingston	SA_REP
Kimberely	Grant	SA_REP
Charles	Johnson	SA_REP
Winston	Taylor	SH_CLERK
Jean	Fleaur	SH_CLERK
Martha	Sullivan	SH_CLERK
Girard	Geoni	SH_CLERK
Nandita	Sarchand	SH_CLERK
Alexis	Bull	SH_CLERK
Julia	Dellinger	SH_CLERK
Anthony	Cabrio	SH_CLERK
Kelly	Chung	SH_CLERK
Jennifer	Dilly	SH_CLERK
Timothy	Gates	SH_CLERK
Randall	Perkins	SH_CLERK
Sarah	Bell	SH_CLERK
Britney	Everett	SH_CLERK
Samuel	McCain	SH_CLERK
Vance	Jones	SH_CLERK
Alana	Walsh	SH_CLERK
Kevin	Feeney	SH_CLERK
Donald	OConnell	SH_CLERK
Douglas	Grant	SH_CLERK
Jennifer	Whalen	AD_ASST
Michael	Hartstein	MK_MAN
Pat	Fay	MK_REP
Susan	Mavris	HR_REP
Hermann	Baer	PR_REP
Shelley	Higgins	AC_MGR
William	Gietz	AC_ACCOUNT

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

107 rows in set (0.00 sec)

mysql> select * from jobs;

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

job_id	job_title	min_salary	max_salary
--------	-----------	------------	------------

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

AC_ACCOUNT	Public Accountant	4200	9000
------------	-------------------	------	------

AC_MGR	Accounting Manager	8200	16000
--------	--------------------	------	-------

AD_ASST	Administration Assistant	3000	6000
---------	--------------------------	------	------

AD PRES	President	20000	40000
---------	-----------	-------	-------

AD_VP	Administration Vice President	15000	30000
-------	-------------------------------	-------	-------

FI_ACCOUNT	Accountant	4200	9000
------------	------------	------	------

FI_MGR	Finance Manager	8200	16000
--------	-----------------	------	-------

HR_REP	Human Resources Representative	4000	9000
--------	--------------------------------	------	------

IT_PROG	Programmer	4000	10000
---------	------------	------	-------

MK_MAN	Marketing Manager	9000	15000
--------	-------------------	------	-------

MK_REP	Marketing Representative	4000	9000
--------	--------------------------	------	------

PR_REP	Public Relations Representative	4500	10500
PU_CLERK	Purchasing Clerk	2500	5500
PU_MAN	Purchasing Manager	8000	15000
SA_MAN	Sales Manager	10000	20000
SA_REP	Sales Representative	6000	12000
SH_CLERK	Shipping Clerk	2500	5500
ST_CLERK	Stock Clerk	2000	5000
ST_MAN	Stock Manager	5500	8500

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

19 rows in set (0.00 sec)

```
mysql> select first_name , last name , job_id from employees group by job_id with rollup;
ERROR 1054 (42S22): Unknown column 'last' in 'field list'
```

```
mysql> select first_name , last_name, job_id from employees group by job_id with rollup;
```

first_name	last_name	job_id
William	Gietz	AC_ACCOUNT
Shelley	Higgins	AC_MGR
Jennifer	Whalen	AD_ASST
Steven	King	AD_PRES
Neena	Kochhar	AD_VP
Daniel	Faviet	FI_ACCOUNT
Nancy	Greenberg	FI_MGR
Susan	Mavris	HR_REP
Alexander	Hunold	IT_PROG
Michael	Hartstein	MK_MAN
Pat	Fay	MK_REP
Hermann	Baer	PR_REP
Alexander	Khoo	PU_CLERK
Den	Raphaely	PU_MAN
John	Russell	SA_MAN
Peter	Tucker	SA_REP
Winston	Taylor	SH_CLERK
Julia	Nayer	ST_CLERK
Matthew	Weiss	ST_MAN
Matthew	Weiss	NULL

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

20 rows in set (0.00 sec)

```
mysql> select first_name , last_name, job_id from employees group by job_id , job_title with rollup;
ERROR 1054 (42S22): Unknown column 'job_title' in 'group statement'
```

```
mysql> select first_name , last_name, job_id from employees group by job_id with rollup;
```

first_name	last_name	job_id
William	Gietz	AC_ACCOUNT
Shelley	Higgins	AC_MGR
Jennifer	Whalen	AD_ASST
Steven	King	AD_PRES
Neena	Kochhar	AD_VP
Daniel	Faviet	FI_ACCOUNT
Nancy	Greenberg	FI_MGR
Susan	Mavris	HR_REP

```
| Alexander | Hunold | IT_PROG |
| Michael | Hartstein | MK_MAN |
| Pat | Fay | MK_REP |
| Hermann | Baer | PR_REP |
| Alexander | Khoo | PU_CLERK |
| Den | Raphaely | PU_MAN |
| John | Russell | SA_MAN |
| Peter | Tucker | SA_REP |
| Winston | Taylor | SH_CLERK |
| Julia | Nayer | ST_CLERK |
| Matthew | Weiss | ST_MAN |
| Matthew | Weiss | NULL |
```

```
+-----+-----+-----+
```

20 rows in set (0.00 sec)

mysql> select * from 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 | NULL
| NULL | 90 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1989-09-21 | AD_VP | 17000.00 |
NULL | 100 | 90 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1993-01-13 | AD_VP | 17000.00 | NU
LL | 100 | 90 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1990-01-03 | IT_PROG | 9000.00 |
NULL | 102 | 60 |
| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1991-05-21 | IT_PROG | 6000.00 | NULL
| 103 | 60 |
| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1997-06-25 | IT_PROG | 4800.00 | NUL
L | 103 | 60 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1998-02-05 | IT_PROG | 4800.00 | NU
LL | 103 | 60 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1999-02-07 | IT_PROG | 4200.00 | N
ULL | 103 | 60 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI_MGR | 12000.00 |
NULL | 101 | 100 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1994-08-16 | FI_ACCOUNT | 9000.00 | N
ULL | 108 | 100 |
| 110 | John | Chen | JCHEN | 515.124.4269 | 1997-09-28 | FI_ACCOUNT | 8200.00 | NU
LL | 108 | 100 |
| 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1997-09-30 | FI_ACCOUNT | 7700.00 | N
ULL | 108 | 100 |
| 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1998-03-07 | FI_ACCOUNT | 7800.00 |
NULL | 108 | 100 |
| 113 | Luis | Popp | LPOPP | 515.124.4567 | 1999-12-07 | FI_ACCOUNT | 6900.00 | NUL
L | 108 | 100 |
| 114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1994-12-07 | PU_MAN | 11000.00 |
NULL | 100 | 30 |
| 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1995-05-18 | PU_CLERK | 3100.00 | N
ULL | 114 | 30 |
```

L	116	Shelli	Baida	SBAIDA	515.127.4563	1997-12-24	PU_CLERK	2900.00	NUL
LL	114	30							
LL	117	Sigal	Tobias	STOBIAS	515.127.4564	1997-07-24	PU_CLERK	2800.00	NU
	114	30							
ULL	118	Guy	Himuro	GHIMURO	515.127.4565	1998-11-15	PU_CLERK	2600.00	N
	114	30							
	119	Karen	Colmenares	KCOLMENA	515.127.4566	1999-08-10	PU_CLERK	2500.00	
NULL	114	30							
LL	120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000.00	NU
	100	50							
	121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00	NULL
	100	50							
ULL	122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900.00	N
	100	50							
NULL	123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00	
	100	50							
NULL	124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16	ST_MAN	5800.00	
	100	50							
L	125	Julia	Nayer	JNAYER	650.124.1214	1997-07-16	ST_CLERK	3200.00	NUL
	120	50							
LL	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-09-28	ST_CLERK	2700.00	NU
	120	50							
ULL	127	James	Landry	JLANDRY	650.124.1334	1999-01-14	ST_CLERK	2400.00	N
	120	50							
ULL	128	Steven	Markle	SMARKLE	650.124.1434	2000-03-08	ST_CLERK	2200.00	N
	120	50							
L	129	Laura	Bissot	LBISSOT	650.124.5234	1997-08-20	ST_CLERK	3300.00	NUL
	121	50							
NULL	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30	ST_CLERK	2800.00	
	121	50							
NULL	131	James	Marlow	JAMRLOW	650.124.7234	1997-02-16	ST_CLERK	2500.00	
	121	50							
L	132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	NUL
	121	50							
LL	133	Jason	Mallin	JMALLIN	650.127.1934	1996-06-14	ST_CLERK	3300.00	NU
	122	50							
NULL	134	Michael	Rogers	MROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00	
	122	50							
	135	Ki	Gee	KGEE	650.127.1734	1999-12-12	ST_CLERK	2400.00	NULL
	122	50							
ULL	136	Hazel	Philtanker	HPHILTAN	650.127.1634	2000-02-06	ST_CLERK	2200.00	N
	122	50							
NULL	137	Renske	Ladwig	RLADWIG	650.121.1234	1995-07-14	ST_CLERK	3600.00	
	123	50							
L	138	Stephen	Stiles	SSTILES	650.121.2034	1997-10-26	ST_CLERK	3200.00	NUL
	123	50							
	139	John	Seo	JSEO	650.121.2019	1998-02-12	ST_CLERK	2700.00	NULL
	123	50							
L	140	Joshua	Patel	JPATEL	650.121.1834	1998-04-06	ST_CLERK	2500.00	NUL
	123	50							
	141	Trenna	Rajs	TRAJS	650.121.8009	1995-10-17	ST_CLERK	3500.00	NULL
	124	50							
LL	142	Curtis	Davies	CDAVIES	650.121.2994	1997-01-29	ST_CLERK	3100.00	NU
	124	50							

ULL	143	Randall	Matos	RMATOS	650.121.2874	1998-03-15	ST_CLERK	2600.00	N
	124		50						
LL	144	Peter	Vargas	PVARGAS	650.121.2004	1998-07-09	ST_CLERK	2500.00	NU
	124		50						
40	145	John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01	SA_MAN	14000.00	0.
	100		80						
0.30	146	Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05	SA_MAN	13500.00	
	100		80						
0.30	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10	SA_MAN	12000.00	
	100		80						
0.30	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1999-10-15	SA_MAN	11000.00	
	100		80						
0.20	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29	SA_MAN	10500.00	
	100		80						
30	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30	SA_REP	10000.00	0.
	145		80						
0.25	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500.00	
	145		80						
	152	Peter	Hall	PHALL	011.44.1344.478968	1997-08-20	SA_REP	9000.00	0.25
	145		80						
.20	153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0
	145		80						
0.20	154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00	
	145		80						
0.15	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1999-11-23	SA_REP	7000.00	
	145		80						
	156	Janette	King	JKING	011.44.1345.429268	1996-01-30	SA_REP	10000.00	0.35
	146		80						
	157	Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04	SA_REP	9500.00	0.35
	146		80						
0.35	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01	SA_REP	9000.00	
	146		80						
0	159	Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10	SA_REP	8000.00	0.3
	146		80						
30	160	Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15	SA_REP	7500.00	0.
	146		80						
25	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.
	146		80						
0.25	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1997-11-11	SA_REP	10500.00	
	147		80						
0.15	163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	
	147		80						
0.10	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	2000-01-24	SA_REP	7200.00	
	147		80						
	165	David	Lee	DLEE	011.44.1346.529268	2000-02-23	SA_REP	6800.00	0.10
	147		80						
0	166	Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.1
	147		80						
10	167	Amit	Banda	ABANDA	011.44.1346.729268	2000-04-21	SA_REP	6200.00	0.
	147		80						
	168	Lisa	Ozer	LOZER	011.44.1343.929268	1997-03-11	SA_REP	11500.00	0.25
	148		80						
0.20	169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1998-03-23	SA_REP	10000.00	
	148		80						

170	Taylor	Fox	TFOX	011.44.1343.729268	1998-01-24	SA_REP	9600.00	0.20
148	80							
171	William	Smith	WSMITH	011.44.1343.629268	1999-02-23	SA_REP	7400.00	0.
148	80							
172	Elizabeth	Bates	EBATES	011.44.1343.529268	1999-03-24	SA_REP	7300.00	0.1
148	80							
173	Sundita	Kumar	SKUMAR	011.44.1343.329268	2000-04-21	SA_REP	6100.00	0
148	80							
174	Ellen	Abel	EABEL	011.44.1644.429267	1996-05-11	SA_REP	11000.00	0.30
149	80							
175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	1997-03-19	SA_REP	8800.00	0
149	80							
176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	1998-03-24	SA_REP	8600.00	0
149	80							
177	Jack	Livingston	JLIVINGS	011.44.1644.429264	1998-04-23	SA_REP	8400.00	0.
149	80							
178	Kimberely	Grant	KGRANT	011.44.1644.429263	1999-05-24	SA_REP	7000.00	
149	NULL							
179	Charles	Johnson	CJOHNSON	011.44.1644.429262	2000-01-04	SA_REP	6200.00	
149	80							
180	Winston	Taylor	WTAYLOR	650.507.9876	1998-01-24	SH_CLERK	3200.00	
120	50							
181	Jean	Fleur	JFLEUR	650.507.9877	1998-02-23	SH_CLERK	3100.00	NUL
120	50							
182	Martha	Sullivan	MSULLIVA	650.507.9878	1999-06-21	SH_CLERK	2500.00	
120	50							
183	Girard	Geoni	GGEONI	650.507.9879	2000-02-03	SH_CLERK	2800.00	NU
120	50							
184	Nandita	Sarchand	NSARCHAN	650.509.1876	1996-01-27	SH_CLERK	4200.00	
121	50							
185	Alexis	Bull	ABULL	650.509.2876	1997-02-20	SH_CLERK	4100.00	NUL
121	50							
186	Julia	Dellinger	JDELLING	650.509.3876	1998-06-24	SH_CLERK	3400.00	NU
121	50							
187	Anthony	Cabrio	ACABRIO	650.509.4876	1999-02-07	SH_CLERK	3000.00	N
121	50							
188	Kelly	Chung	KCHUNG	650.505.1876	1997-06-14	SH_CLERK	3800.00	N
122	50							
189	Jennifer	Dilly	JDILLY	650.505.2876	1997-08-13	SH_CLERK	3600.00	NUL
122	50							
190	Timothy	Gates	TGATES	650.505.3876	1998-07-11	SH_CLERK	2900.00	N
122	50							
191	Randall	Perkins	RPERKINS	650.505.4876	1999-12-19	SH_CLERK	2500.00	N
122	50							
192	Sarah	Bell	SBELL	650.501.1876	1996-02-04	SH_CLERK	4000.00	NULL
123	50							
193	Britney	Everett	BEVERETT	650.501.2876	1997-03-03	SH_CLERK	3900.00	N
123	50							
194	Samuel	McCain	SMCCAIN	650.501.3876	1998-07-01	SH_CLERK	3200.00	
123	50							
195	Vance	Jones	VJONES	650.501.4876	1999-03-17	SH_CLERK	2800.00	NU
123	50							
196	Alana	Walsh	AWALSH	650.507.9811	1998-04-24	SH_CLERK	3100.00	N
124	50							

```

|      197 | Kevin      | Feeney      | KFEENEY | 650.507.9822 | 1998-05-23 | SH_CLERK | 3000.00 |      N
ULL |      124 |      50 |
|      198 | Donald     | OConnell    | DOCONNEL | 650.507.9833 | 1999-06-21 | SH_CLERK | 2600.00 |
NULL |      124 |      50 |
|      199 | Douglas    | Grant       | DGRANT   | 650.507.9844 | 2000-01-13 | SH_CLERK | 2600.00 |      N
ULL |      124 |      50 |
|      200 | Jennifer   | Whalen      | JWHALEN  | 515.123.4444 | 1987-09-17 | AD_ASST  | 4400.00 |      N
ULL |      101 |      10 |
|      201 | Michael    | Hartstein   | MHARTSTE | 515.123.5555 | 1996-02-17 | MK_MAN   | 13000.00 |
NULL |      100 |      20 |
|      202 | Pat        | Fay         | PFAY     | 603.123.6666 | 1997-08-17 | MK_REP   | 6000.00 |      NULL |
201 |      20 |
|      203 | Susan      | Mavris      | SMAVRIS  | 515.123.7777 | 1994-06-07 | HR_REP   | 6500.00 |      NUL
L |      101 |      40 |
|      204 | Hermann    | Baer        | HBAER    | 515.123.8888 | 1994-06-07 | PR_REP   | 10000.00 |      NUL
L |      101 |      70 |
|      205 | Shelley    | Higgins     | SHIGGINS | 515.123.8080 | 1994-06-07 | AC_MGR   | 12000.00 |      N
ULL |      101 |      110 |
|      206 | William    | Gietz       | WGIETZ   | 515.123.8181 | 1994-06-07 | AC_ACCOUNT | 8300.00 |
NULL |      205 |      110 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+
107 rows in set (0.00 sec)

```

```
mysql> select employee_id , job_id , manager_id from employees group by job_id;
```

```

+-----+-----+-----+
| employee_id | job_id   | manager_id |
+-----+-----+-----+
|      206 | AC_ACCOUNT |      205 |
|      205 | AC_MGR    |      101 |
|      200 | AD_ASST   |      101 |
|      100 | AD_PREP   |      NULL |
|      101 | AD_VP     |      100 |
|      109 | FI_ACCOUNT |      108 |
|      108 | FI_MGR    |      101 |
|      203 | HR_REP    |      101 |
|      103 | IT_PROG   |      102 |
|      201 | MK_MAN    |      100 |
|      202 | MK_REP    |      201 |
|      204 | PR_REP    |      101 |
|      115 | PU_CLERK  |      114 |
|      114 | PU_MAN    |      100 |
|      145 | SA_MAN    |      100 |
|      150 | SA_REP    |      145 |
|      180 | SH_CLERK  |      120 |
|      125 | ST_CLERK  |      120 |
|      120 | ST_MAN    |      100 |
+-----+-----+-----+
19 rows in set (0.00 sec)

```

```
mysql> select * from 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	NULL
	NULL	90							
	101	Neena	Kochhar	NKOCHHAR	515.123.4568	1989-09-21	AD_VP	17000.00	
NULL	100	90							
	102	Lex	De Haan	LDEHAAN	515.123.4569	1993-01-13	AD_VP	17000.00	NU
LL	100	90							
	103	Alexander	Hunold	AHUNOLD	590.423.4567	1990-01-03	IT_PROG	9000.00	
NULL	102	60							
	104	Bruce	Ernst	BERNST	590.423.4568	1991-05-21	IT_PROG	6000.00	NULL
	103	60							
	105	David	Austin	DAUSTIN	590.423.4569	1997-06-25	IT_PROG	4800.00	NUL
L	103	60							
	106	Valli	Pataballa	VPATABAL	590.423.4560	1998-02-05	IT_PROG	4800.00	NU
LL	103	60							
	107	Diana	Lorentz	DLORENTZ	590.423.5567	1999-02-07	IT_PROG	4200.00	N
ULL	103	60							
	108	Nancy	Greenberg	NGREENBE	515.124.4569	1994-08-17	FI_MGR	12000.00	
NULL	101	100							
	109	Daniel	Faviet	DFAVIET	515.124.4169	1994-08-16	FI_ACCOUNT	9000.00	N
ULL	108	100							
	110	John	Chen	JCHEN	515.124.4269	1997-09-28	FI_ACCOUNT	8200.00	NU
LL	108	100							
	111	Ismael	Sciarra	ISCIARRA	515.124.4369	1997-09-30	FI_ACCOUNT	7700.00	N
ULL	108	100							
	112	Jose Manuel	Urman	JMURMAN	515.124.4469	1998-03-07	FI_ACCOUNT	7800.00	
NULL	108	100							
	113	Luis	Popp	LPOPP	515.124.4567	1999-12-07	FI_ACCOUNT	6900.00	NUL
L	108	100							
	114	Den	Raphaely	DRAPHEAL	515.127.4561	1994-12-07	PU_MAN	11000.00	
NULL	100	30							
	115	Alexander	Khoo	AKHOO	515.127.4562	1995-05-18	PU_CLERK	3100.00	N
ULL	114	30							
	116	Shellie	Baida	SBAIDA	515.127.4563	1997-12-24	PU_CLERK	2900.00	NUL
L	114	30							
	117	Sigal	Tobias	STOBIAS	515.127.4564	1997-07-24	PU_CLERK	2800.00	NU
LL	114	30							
	118	Guy	Himuro	GHIMURO	515.127.4565	1998-11-15	PU_CLERK	2600.00	N
ULL	114	30							
	119	Karen	Colmenares	KCOLMENA	515.127.4566	1999-08-10	PU_CLERK	2500.00	
NULL	114	30							
	120	Matthew	Weiss	MWEISS	650.123.1234	1996-07-18	ST_MAN	8000.00	NU
LL	100	50							
	121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00	NULL
	100	50							
	122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900.00	N
ULL	100	50							
	123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00	
NULL	100	50							
	124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16	ST_MAN	5800.00	
NULL	100	50							
	125	Julia	Nayer	JNAYER	650.124.1214	1997-07-16	ST CLERK	3200.00	NUL

L	120	50							
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-09-28	ST_CLERK	2700.00	NU
LL	120	50							
	127	James	Landry	JLANDRY	650.124.1334	1999-01-14	ST_CLERK	2400.00	N
ULL	120	50							
	128	Steven	Markle	SMARKLE	650.124.1434	2000-03-08	ST_CLERK	2200.00	N
ULL	120	50							
	129	Laura	Bissot	LBISSOT	650.124.5234	1997-08-20	ST_CLERK	3300.00	NUL
L	121	50							
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30	ST_CLERK	2800.00	
NULL	121	50							
	131	James	Marlow	JAMRLOW	650.124.7234	1997-02-16	ST_CLERK	2500.00	
NULL	121	50							
	132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	NUL
L	121	50							
	133	Jason	Mallin	JMALLIN	650.127.1934	1996-06-14	ST_CLERK	3300.00	NU
LL	122	50							
	134	Michael	Rogers	MROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00	
NULL	122	50							
	135	Ki	Gee	KGEE	650.127.1734	1999-12-12	ST_CLERK	2400.00	NULL
	122	50							
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	2000-02-06	ST_CLERK	2200.00	N
ULL	122	50							
	137	Renske	Ladwig	RLADWIG	650.121.1234	1995-07-14	ST_CLERK	3600.00	
NULL	123	50							
	138	Stephen	Stiles	SSTILES	650.121.2034	1997-10-26	ST_CLERK	3200.00	NUL
L	123	50							
	139	John	Seo	JSEO	650.121.2019	1998-02-12	ST_CLERK	2700.00	NULL
	123	50							
	140	Joshua	Patel	JPATEL	650.121.1834	1998-04-06	ST_CLERK	2500.00	NUL
L	123	50							
	141	Trenna	Rajs	TRAJS	650.121.8009	1995-10-17	ST_CLERK	3500.00	NULL
	124	50							
	142	Curtis	Davies	CDAVIES	650.121.2994	1997-01-29	ST_CLERK	3100.00	NU
LL	124	50							
	143	Randall	Matos	RMATOS	650.121.2874	1998-03-15	ST_CLERK	2600.00	N
ULL	124	50							
	144	Peter	Vargas	PVARGAS	650.121.2004	1998-07-09	ST_CLERK	2500.00	NU
LL	124	50							
	145	John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01	SA_MAN	14000.00	0.
40	100	80							
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05	SA_MAN	13500.00	
	0.30	100	80						
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10	SA_MAN	12000.00	
	0.30	100	80						
	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1999-10-15	SA_MAN	11000.00	
	0.30	100	80						
	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29	SA_MAN	10500.00	
	0.20	100	80						
	150	Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30	SA_REP	10000.00	0.
	30	145	80						
	151	David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500.00	
	0.25	145	80						
	152	Peter	Hall	PHALL	011.44.1344.478968	1997-08-20	SA_REP	9000.00	0.25

145	80								
153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0	
.20	145	80							
154	Nanette	Cambraut	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00		
0.20	145	80							
155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1999-11-23	SA_REP	7000.00		
0.15	145	80							
156	Janette	King	JKING	011.44.1345.429268	1996-01-30	SA_REP	10000.00	0.35	
146	80								
157	Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04	SA_REP	9500.00	0.35	
146	80								
158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01	SA_REP	9000.00		
0.35	146	80							
159	Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10	SA_REP	8000.00	0.3	
0	146	80							
160	Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15	SA_REP	7500.00	0.	
30	146	80							
161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.	
25	146	80							
162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1997-11-11	SA_REP	10500.00		
0.25	147	80							
163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00		
0.15	147	80							
164	Mattea	Marvins	MMARVINS	011.44.1346.329268	2000-01-24	SA_REP	7200.00		
0.10	147	80							
165	David	Lee	DLEE	011.44.1346.529268	2000-02-23	SA_REP	6800.00	0.10	
147	80								
166	Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.1	
0	147	80							
167	Amit	Banda	ABANDA	011.44.1346.729268	2000-04-21	SA_REP	6200.00	0.	
10	147	80							
168	Lisa	Ozer	LOZER	011.44.1343.929268	1997-03-11	SA_REP	11500.00	0.25	
148	80								
169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1998-03-23	SA_REP	10000.00		
0.20	148	80							
170	Tayler	Fox	TFOX	011.44.1343.729268	1998-01-24	SA_REP	9600.00	0.20	
148	80								
171	William	Smith	WSMITH	011.44.1343.629268	1999-02-23	SA_REP	7400.00	0.	
15	148	80							
172	Elizabeth	Bates	EBATES	011.44.1343.529268	1999-03-24	SA_REP	7300.00	0.1	
5	148	80							
173	Sundita	Kumar	SKUMAR	011.44.1343.329268	2000-04-21	SA_REP	6100.00	0	
.10	148	80							
174	Ellen	Abel	EABEL	011.44.1644.429267	1996-05-11	SA_REP	11000.00	0.30	
149	80								
175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	1997-03-19	SA_REP	8800.00	0	
.25	149	80							
176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	1998-03-24	SA_REP	8600.00	0	
.20	149	80							
177	Jack	Livingston	JLIVINGS	011.44.1644.429264	1998-04-23	SA_REP	8400.00	0.	
20	149	80							
178	Kimberely	Grant	KGRANT	011.44.1644.429263	1999-05-24	SA_REP	7000.00		
0.15	149	NULL							
179	Charles	Johnson	CJOHNSON	011.44.1644.429262	2000-01-04	SA_REP	6200.00		

0.10	149	80												
	180	Winston		Taylor		WTAYLOR		650.507.9876		1998-01-24	SH_CLERK		3200.00	
NULL		120		50										
	181	Jean		Fleur		JFLEAUR		650.507.9877		1998-02-23	SH_CLERK		3100.00	NUL
L		120		50										
	182	Martha		Sullivan		MSULLIVA		650.507.9878		1999-06-21	SH_CLERK		2500.00	
NULL		120		50										
	183	Girard		Geoni		GGEONI		650.507.9879		2000-02-03	SH_CLERK		2800.00	NU
LL		120		50										
	184	Nandita		Sarchand		NSARCHAN		650.509.1876		1996-01-27	SH_CLERK		4200.00	
NULL		121		50										
	185	Alexis		Bull		ABULL		650.509.2876		1997-02-20	SH_CLERK		4100.00	NUL
L		121		50										
	186	Julia		Dellinger		JDELLING		650.509.3876		1998-06-24	SH_CLERK		3400.00	NU
LL		121		50										
	187	Anthony		Cabrio		ACABRIO		650.509.4876		1999-02-07	SH_CLERK		3000.00	N
ULL		121		50										
	188	Kelly		Chung		KCHUNG		650.505.1876		1997-06-14	SH_CLERK		3800.00	N
ULL		122		50										
	189	Jennifer		Dilly		JDILLY		650.505.2876		1997-08-13	SH_CLERK		3600.00	NUL
L		122		50										
	190	Timothy		Gates		TGATES		650.505.3876		1998-07-11	SH_CLERK		2900.00	N
ULL		122		50										
	191	Randall		Perkins		RPERKINS		650.505.4876		1999-12-19	SH_CLERK		2500.00	N
ULL		122		50										
	192	Sarah		Bell		SBELL		650.501.1876		1996-02-04	SH_CLERK		4000.00	NULL
	123			50										
	193	Britney		Everett		BEVERETT		650.501.2876		1997-03-03	SH_CLERK		3900.00	N
ULL		123		50										
	194	Samuel		McCain		SMCCAIN		650.501.3876		1998-07-01	SH_CLERK		3200.00	
NULL		123		50										
	195	Vance		Jones		VJONES		650.501.4876		1999-03-17	SH_CLERK		2800.00	NU
LL		123		50										
	196	Alana		Walsh		AWALSH		650.507.9811		1998-04-24	SH_CLERK		3100.00	N
ULL		124		50										
	197	Kevin		Feeney		KFEENEY		650.507.9822		1998-05-23	SH_CLERK		3000.00	N
ULL		124		50										
	198	Donald		OConnell		DOCONNEL		650.507.9833		1999-06-21	SH_CLERK		2600.00	
NULL		124		50										
	199	Douglas		Grant		DGRANT		650.507.9844		2000-01-13	SH_CLERK		2600.00	N
ULL		124		50										
	200	Jennifer		Whalen										

NULL	205	110
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107 rows in set (0.00 sec)

ERROR 1054 (42S22): Unknown column 'E.first_name' in 'field list'

first_name	last_name	job_id	job_title
William	Gietz	AC_ACCOUNT	Public Accountant
Shelley	Higgins	AC_MGR	Accounting Manager
Jennifer	Whalen	AD_ASST	Administration Assistant
Steven	King	AD_PRES	President
Neena	Kochhar	AD_VP	Administration Vice President
Lex	De Haan	AD_VP	Administration Vice President
Daniel	Faviet	FI_ACCOUNT	Accountant
John	Chen	FI_ACCOUNT	Accountant
Ismael	Sciarra	FI_ACCOUNT	Accountant
Jose Manuel	Urman	FI_ACCOUNT	Accountant
Luis	Popp	FI_ACCOUNT	Accountant
Nancy	Greenberg	FI_MGR	Finance Manager
Susan	Mavris	HR_REP	Human Resources Representative
Alexander	Hunold	IT_PROG	Programmer
Bruce	Ernst	IT_PROG	Programmer
David	Austin	IT_PROG	Programmer
Valli	Pataballa	IT_PROG	Programmer
Diana	Lorentz	IT_PROG	Programmer
Michael	Hartstein	MK_MAN	Marketing Manager
Pat	Fay	MK_REP	Marketing Representative
Hermann	Baer	PR_REP	Public Relations Representative
Alexander	Khoo	PU_CLERK	Purchasing Clerk
Shelli	Baida	PU_CLERK	Purchasing Clerk
Sigal	Tobias	PU_CLERK	Purchasing Clerk
Guy	Himuro	PU_CLERK	Purchasing Clerk
Karen	Colmenares	PU_CLERK	Purchasing Clerk
Den	Raphaely	PU_MAN	Purchasing Manager
John	Russell	SA_MAN	Sales Manager
Karen	Partners	SA_MAN	Sales Manager
Alberto	Errazuriz	SA_MAN	Sales Manager
Gerald	Cambrault	SA_MAN	Sales Manager
Eleni	Zlotkey	SA_MAN	Sales Manager
Peter	Tucker	SA_REP	Sales Representative
David	Bernstein	SA_REP	Sales Representative
Peter	Hall	SA_REP	Sales Representative
Christopher	Olsen	SA_REP	Sales Representative
Nanette	Cambrault	SA_REP	Sales Representative
Oliver	Tuvault	SA_REP	Sales Representative

Janette	King	SA_REP	Sales Representative	
Patrick	Sully	SA_REP	Sales Representative	
Allan	McEwen	SA_REP	Sales Representative	
Lindsey	Smith	SA_REP	Sales Representative	
Louise	Doran	SA_REP	Sales Representative	
Sarath	Sewall	SA_REP	Sales Representative	
Clara	Vishney	SA_REP	Sales Representative	
Danielle	Greene	SA_REP	Sales Representative	
Mattea	Marvins	SA_REP	Sales Representative	
David	Lee	SA_REP	Sales Representative	
Sundar	Ande	SA_REP	Sales Representative	
Amit	Banda	SA_REP	Sales Representative	
Lisa	Ozer	SA_REP	Sales Representative	
Harrison	Bloom	SA_REP	Sales Representative	
Tayler	Fox	SA_REP	Sales Representative	
William	Smith	SA_REP	Sales Representative	
Elizabeth	Bates	SA_REP	Sales Representative	
Sundita	Kumar	SA_REP	Sales Representative	
Ellen	Abel	SA_REP	Sales Representative	
Alyssa	Hutton	SA_REP	Sales Representative	
Jonathon	Taylor	SA_REP	Sales Representative	
Jack	Livingston	SA_REP	Sales Representative	
Kimberely	Grant	SA_REP	Sales Representative	
Charles	Johnson	SA_REP	Sales Representative	
Winston	Taylor	SH_CLERK	Shipping Clerk	
Jean	Fleaur	SH_CLERK	Shipping Clerk	
Martha	Sullivan	SH_CLERK	Shipping Clerk	
Girard	Geoni	SH_CLERK	Shipping Clerk	
Nandita	Sarchand	SH_CLERK	Shipping Clerk	
Alexis	Bull	SH_CLERK	Shipping Clerk	
Julia	Dellinger	SH_CLERK	Shipping Clerk	
Anthony	Cabrio	SH_CLERK	Shipping Clerk	
Kelly	Chung	SH_CLERK	Shipping Clerk	
Jennifer	Dilly	SH_CLERK	Shipping Clerk	
Timothy	Gates	SH_CLERK	Shipping Clerk	
Randall	Perkins	SH_CLERK	Shipping Clerk	
Sarah	Bell	SH_CLERK	Shipping Clerk	
Britney	Everett	SH_CLERK	Shipping Clerk	
Samuel	McCain	SH_CLERK	Shipping Clerk	
Vance	Jones	SH_CLERK	Shipping Clerk	
Alana	Walsh	SH_CLERK	Shipping Clerk	
Kevin	Feeney	SH_CLERK	Shipping Clerk	
Donald	OConnell	SH_CLERK	Shipping Clerk	
Douglas	Grant	SH_CLERK	Shipping Clerk	
Julia	Nayer	ST_CLERK	Stock Clerk	
Irene	Mikkilineni	ST_CLERK	Stock Clerk	
James	Landry	ST_CLERK	Stock Clerk	
Steven	Markle	ST_CLERK	Stock Clerk	
Laura	Bissot	ST_CLERK	Stock Clerk	
Mozhe	Atkinson	ST_CLERK	Stock Clerk	
James	Marlow	ST_CLERK	Stock Clerk	
TJ	Olson	ST_CLERK	Stock Clerk	
Jason	Mallin	ST_CLERK	Stock Clerk	
Michael	Rogers	ST_CLERK	Stock Clerk	

Ki	Gee	ST_CLERK	Stock Clerk	
Hazel	Philtanker	ST_CLERK	Stock Clerk	
Renske	Ladwig	ST_CLERK	Stock Clerk	
Stephen	Stiles	ST_CLERK	Stock Clerk	
John	Seo	ST_CLERK	Stock Clerk	
Joshua	Patel	ST_CLERK	Stock Clerk	
Trenna	Rajs	ST_CLERK	Stock Clerk	
Curtis	Davies	ST_CLERK	Stock Clerk	
Randall	Matos	ST_CLERK	Stock Clerk	
Peter	Vargas	ST_CLERK	Stock Clerk	
Matthew	Weiss	ST_MAN	Stock Manager	
Adam	Fripp	ST_MAN	Stock Manager	
Payam	Kaufling	ST_MAN	Stock Manager	
Shanta	Vollman	ST_MAN	Stock Manager	
Kevin	Mourgos	ST_MAN	Stock Manager	

```
+-----+-----+-----+-----+
107 rows in set (0.00 sec)
```

```
mysql> select employee_id , count(*) , job_id , job_title
-> from employees E
-> join jobs J
-> on E.job_id = J.job_id;
ERROR 1052 (23000): Column 'job_id' in field list is ambiguous
```

```
mysql> select E.first_name , E.last_name , J.job_id , J.job_title
-> -> from employees E
-> -> join jobs J
-> -> join jobs J^X^X^X select E.first_name , E.last_name , J.job_id , J.job_title
-> -> from employees E
-> -> join jobs J
-> exit;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL s
erver version for the right syntax to use near 'from employees E
```

```
-> join jobs J
-> join jobs J↑↑↑ select E.first_name , ' at line 2
mysql> select E.employee_id , counts(*) , E.job_id, J.job_title
-> from employees E
-> join jobs J
-> on E.job_id = J.job_id;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL s
erver version for the right syntax to use near '*) , E.job_id, J.job_title
```

```
from employees E
join jobs J
on E.job_id = J.job_id' at line 1
```

```
mysql> select employee_id , count(*) from employees;
```

```
+-----+-----+
| employee_id | count(*) |
+-----+-----+
|      100    |      107 |
+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> select J.job_id , J.job_title , E.employee_id , count(*) from jobs J join employees E on J.job_id = E.job_id;
+-----+-----+-----+-----+
| job_id   | job_title   | employee_id | count(*) |
```

```
+-----+-----+-----+-----+
| AC_ACCOUNT | Public Accountant |      206 |      107 |
+-----+-----+-----+-----+
```

1 row in set (0.00 sec)

mysql> select * from 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 | NULL
| NULL | 90 |
| 101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1989-09-21 | AD_VP | 17000.00 |
NULL | 100 | 90 |
| 102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1993-01-13 | AD_VP | 17000.00 | NU
LL | 100 | 90 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1990-01-03 | IT_PROG | 9000.00 |
NULL | 102 | 60 |
| 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1991-05-21 | IT_PROG | 6000.00 | NULL
| 103 | 60 |
| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1997-06-25 | IT_PROG | 4800.00 | NUL
L | 103 | 60 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1998-02-05 | IT_PROG | 4800.00 | NU
LL | 103 | 60 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1999-02-07 | IT_PROG | 4200.00 | N
ULL | 103 | 60 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI_MGR | 12000.00 |
NULL | 101 | 100 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1994-08-16 | FI_ACCOUNT | 9000.00 | N
ULL | 108 | 100 |
| 110 | John | Chen | JCHEN | 515.124.4269 | 1997-09-28 | FI_ACCOUNT | 8200.00 | NU
LL | 108 | 100 |
| 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1997-09-30 | FI_ACCOUNT | 7700.00 | N
ULL | 108 | 100 |
| 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1998-03-07 | FI_ACCOUNT | 7800.00 |
NULL | 108 | 100 |
| 113 | Luis | Popp | LPOPP | 515.124.4567 | 1999-12-07 | FI_ACCOUNT | 6900.00 | NUL
L | 108 | 100 |
| 114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1994-12-07 | PU_MAN | 11000.00 |
NULL | 100 | 30 |
| 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1995-05-18 | PU_CLERK | 3100.00 | N
ULL | 114 | 30 |
| 116 | Shelli | Baida | SBIDA | 515.127.4563 | 1997-12-24 | PU_CLERK | 2900.00 | NUL
L | 114 | 30 |
| 117 | Sigal | Tobias | STOBIAS | 515.127.4564 | 1997-07-24 | PU_CLERK | 2800.00 | NU
LL | 114 | 30 |
| 118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1998-11-15 | PU_CLERK | 2600.00 | N
ULL | 114 | 30 |
| 119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 1999-08-10 | PU_CLERK | 2500.00 |
NULL | 114 | 30 |
| 120 | Matthew | Weiss | MWEISS | 650.123.1234 | 1996-07-18 | ST_MAN | 8000.00 | NU
LL | 100 | 50 |
```

	121	Adam	Fripp	AFRIPP	650.123.2234	1997-04-10	ST_MAN	8200.00	NULL
	100	50							
	122	Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01	ST_MAN	7900.00	N
ULL	100	50							
	123	Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10	ST_MAN	6500.00	
NULL	100	50							
	124	Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16	ST_MAN	5800.00	
NULL	100	50							
	125	Julia	Nayer	JNAYER	650.124.1214	1997-07-16	ST_CLERK	3200.00	NUL
L	120	50							
	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-09-28	ST_CLERK	2700.00	NU
LL	120	50							
	127	James	Landry	JLANDRY	650.124.1334	1999-01-14	ST_CLERK	2400.00	N
ULL	120	50							
	128	Steven	Markle	SMARKLE	650.124.1434	2000-03-08	ST_CLERK	2200.00	N
ULL	120	50							
	129	Laura	Bissot	LBISSOT	650.124.5234	1997-08-20	ST_CLERK	3300.00	NUL
L	121	50							
	130	Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30	ST_CLERK	2800.00	
NULL	121	50							
	131	James	Marlow	JAMRLOW	650.124.7234	1997-02-16	ST_CLERK	2500.00	
NULL	121	50							
	132	TJ	Olson	TJOLSON	650.124.8234	1999-04-10	ST_CLERK	2100.00	NUL
L	121	50							
	133	Jason	Mallin	JMALLIN	650.127.1934	1996-06-14	ST_CLERK	3300.00	NU
LL	122	50							
	134	Michael	Rogers	MROGERS	650.127.1834	1998-08-26	ST_CLERK	2900.00	
NULL	122	50							
	135	Ki	Gee	KGEE	650.127.1734	1999-12-12	ST_CLERK	2400.00	NULL
	122	50							
	136	Hazel	Philtanker	HPHILTAN	650.127.1634	2000-02-06	ST_CLERK	2200.00	N
ULL	122	50							
	137	Renske	Ladwig	RLADWIG	650.121.1234	1995-07-14	ST_CLERK	3600.00	
NULL	123	50							
	138	Stephen	Stiles	SSTILES	650.121.2034	1997-10-26	ST_CLERK	3200.00	NUL
L	123	50							
	139	John	Seo	JSEO	650.121.2019	1998-02-12	ST_CLERK	2700.00	NULL
	123	50							
	140	Joshua	Patel	JPATEL	650.121.1834	1998-04-06	ST_CLERK	2500.00	NUL
L	123	50							
	141	Trenna	Rajs	TRAJS	650.121.8009	1995-10-17	ST_CLERK	3500.00	NULL
	124	50							
	142	Curtis	Davies	CDAVIES	650.121.2994	1997-01-29	ST_CLERK	3100.00	NU
LL	124	50							
	143	Randall	Matos	RMATOS	650.121.2874	1998-03-15	ST_CLERK	2600.00	N
ULL	124	50							
	144	Peter	Vargas	PVARGAS	650.121.2004	1998-07-09	ST_CLERK	2500.00	NU
LL	124	50							
	145	John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01	SA_MAN	14000.00	0.
40	100	80							
	146	Karen	Partners	KPARTNER	011.44.1344.467268	1997-01-05	SA_MAN	13500.00	
0.30	100	80							
	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	1997-03-10	SA_MAN	12000.00	
0.30	100	80							

148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	1999-10-15	SA_MAN	11000.00	
0.30	100	80						
149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	2000-01-29	SA_MAN	10500.00	
0.20	100	80						
150	Peter	Tucker	PTUCKER	011.44.1344.129268	1997-01-30	SA_REP	10000.00	0.
30	145	80						
151	David	Bernstein	DBERNSTE	011.44.1344.345268	1997-03-24	SA_REP	9500.00	
0.25	145	80						
152	Peter	Hall	PHALL	011.44.1344.478968	1997-08-20	SA_REP	9000.00	0.25
145	80							
153	Christopher	Olsen	COLSEN	011.44.1344.498718	1998-03-30	SA_REP	8000.00	0
.20	145	80						
154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	1998-12-09	SA_REP	7500.00	
0.20	145	80						
155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	1999-11-23	SA_REP	7000.00	
0.15	145	80						
156	Janette	King	JKING	011.44.1345.429268	1996-01-30	SA_REP	10000.00	0.35
146	80							
157	Patrick	Sully	PSULLY	011.44.1345.929268	1996-03-04	SA_REP	9500.00	0.35
146	80							
158	Allan	McEwen	AMCEWEN	011.44.1345.829268	1996-08-01	SA_REP	9000.00	
0.35	146	80						
159	Lindsey	Smith	LSMITH	011.44.1345.729268	1997-03-10	SA_REP	8000.00	0.3
0	146	80						
160	Louise	Doran	LDORAN	011.44.1345.629268	1997-12-15	SA_REP	7500.00	0.
30	146	80						
161	Sarath	Sewall	SSEWALL	011.44.1345.529268	1998-11-03	SA_REP	7000.00	0.
25	146	80						
162	Clara	Vishney	CVISHNEY	011.44.1346.129268	1997-11-11	SA_REP	10500.00	
0.25	147	80						
163	Danielle	Greene	DGREENE	011.44.1346.229268	1999-03-19	SA_REP	9500.00	
0.15	147	80						
164	Mattea	Marvins	MMARVINS	011.44.1346.329268	2000-01-24	SA_REP	7200.00	
0.10	147	80						
165	David	Lee	DLEE	011.44.1346.529268	2000-02-23	SA_REP	6800.00	0.10
147	80							
166	Sundar	Ande	SANDE	011.44.1346.629268	2000-03-24	SA_REP	6400.00	0.1
0	147	80						
167	Amit	Banda	ABANDA	011.44.1346.729268	2000-04-21	SA_REP	6200.00	0.
10	147	80						
168	Lisa	Ozer	LOZER	011.44.1343.929268	1997-03-11	SA_REP	11500.00	0.25
148	80							
169	Harrison	Bloom	HBLOOM	011.44.1343.829268	1998-03-23	SA_REP	10000.00	
0.20	148	80						
170	Tayler	Fox	TFOX	011.44.1343.729268	1998-01-24	SA_REP	9600.00	0.20
148	80							
171	William	Smith	WSMITH	011.44.1343.629268	1999-02-23	SA_REP	7400.00	0.
15	148	80						
172	Elizabeth	Bates	EBATES	011.44.1343.529268	1999-03-24	SA_REP	7300.00	0.1
5	148	80						
173	Sundita	Kumar	SKUMAR	011.44.1343.329268	2000-04-21	SA_REP	6100.00	0
.10	148	80						
174	Ellen	Abel	EABEL	011.44.1644.429267	1996-05-11	SA_REP	11000.00	0.30
149	80							

	175	Alyssa		Hutton		AHUTTON		011.44.1644.429266		1997-03-19		SA_REP		8800.00		0
.25		149		80												
	176	Jonathon		Taylor		JTAYLOR		011.44.1644.429265		1998-03-24		SA_REP		8600.00		0
.20		149		80												
	177	Jack		Livingston		JLIVINGS		011.44.1644.429264		1998-04-23		SA_REP		8400.00		0.
20		149		80												
	178	Kimberely		Grant		KGRANT		011.44.1644.429263		1999-05-24		SA_REP		7000.00		
0.15		149		NULL												
	179	Charles		Johnson		CJOHNSON		011.44.1644.429262		2000-01-04		SA_REP		6200.00		
0.10		149		80												
	180	Winston		Taylor		WTAYLOR		650.507.9876		1998-01-24		SH_CLERK		3200.00		
NULL		120		50												
	181	Jean		Fleur		JFLEAUR		650.507.9877		1998-02-23		SH_CLERK		3100.00		NUL
L		120		50												
	182	Martha		Sullivan		MSULLIVA		650.507.9878		1999-06-21		SH_CLERK		2500.00		
NULL		120		50												
	183	Girard		Geoni		GGEONI		650.507.9879		2000-02-03		SH_CLERK		2800.00		NU
LL		120		50												
	184	Nandita		Sarchand		NSARCHAN		650.509.1876		1996-01-27		SH_CLERK		4200.00		
NULL		121		50												
	185	Alexis		Bull		ABULL		650.509.2876		1997-02-20		SH_CLERK		4100.00		NUL
L		121		50												
	186	Julia		Dellinger		JDELLING		650.509.3876		1998-06-24		SH_CLERK		3400.00		NU
LL		121		50												
	187	Anthony		Cabrio		ACABRIO		650.509.4876		1999-02-07		SH_CLERK		3000.00		N
ULL		121		50												
	188	Kelly		Chung		KCHUNG		650.505.1876		1997-06-14		SH_CLERK		3800.00		N
ULL		122		50												
	189	Jennifer		Dilly		JDILLY		650.505.2876		1997-08-13		SH_CLERK		3600.00		NUL
L		122		50												
	190	Timothy		Gates		TGATES		650.505.3876		1998-07-11		SH_CLERK		2900.00		N
ULL		122		50												
	191	Randall		Perkins		RPERKINS		650.505.4876		1999-12-19		SH_CLERK		2500.00		N
ULL		122		50												
	192	Sarah		Bell		SBELL		650.501.1876		1996-02-04		SH_CLERK		4000.00		NULL
	123			50												
	193	Britney		Everett		BEVERETT		650.501.2876		1997-03-03		SH_CLERK		3900.00		N
ULL		123		50												
	194	Samuel		McCain		SMCCAIN		650.501.3876		1998-07-01		SH_CLERK		3200.00		
NULL		123		50												
	195	Vance		Jones		VJONES		650.501.4876		1999-03-17		SH_CLERK		2800.00		NU
LL		123		50												
	196	Alana		Walsh		AWALSH		650.507.9811		1998-04-24		SH_CLERK		3100.00		N
ULL		124		50												
	197	Kevin		Feeney		KFEENEY		650.507.9822		1998-05-23		SH_CLERK		3000.00		N
ULL		124		50												
	198	Donald		OConnell		DOCONNEL		650.507.9833		1999-06-21		SH_CLERK		2600.00		
NULL		124		50												
	199	Douglas		Grant		DGRANT		650.507.9844		2000-01-13		SH_CLERK		2600.00		N
ULL		124		50												
	200	Jennifer		Whalen		JWHALEN		515.123.4444		1987-09-17		AD_ASST		4400.00		N
ULL		101		10												
	201	Michael		Hartstein		MHARTSTE		515.123.5555		1996-02-17		MK_MAN		13000.00		
NULL		100		20												

202	Pat	Fay	PFAY	603.123.6666	1997-08-17	MK_REP	6000.00	NULL
201		20						
203	Susan	Mavris	SMAVRIS	515.123.7777	1994-06-07	HR_REP	6500.00	NUL
101		40						
204	Hermann	Baer	HBAER	515.123.8888	1994-06-07	PR_REP	10000.00	NUL
101		70						
205	Shelley	Higgins	SHIGGINS	515.123.8080	1994-06-07	AC_MGR	12000.00	N
101		110						
206	William	Gietz	WGIETZ	515.123.8181	1994-06-07	AC_ACCOUNT	8300.00	
205		110						

107 rows in set (0.00 sec)

```
mysql> select first_name , last_name , salary from employees where salary = max('salary');
```

ERROR 1111 (HY000): Invalid use of group function

```
mysql> select first_name , last_name , salary from employees where salary >= '10000';
```

first_name	last_name	salary
Steven	King	24000.00
Neena	Kochhar	17000.00
Lex	De Haan	17000.00
Nancy	Greenberg	12000.00
Den	Raphaely	11000.00
John	Russell	14000.00
Karen	Partners	13500.00
Alberto	Errazuriz	12000.00
Gerald	Cambrault	11000.00
Eleni	Zlotkey	10500.00
Peter	Tucker	10000.00
Janette	King	10000.00
Clara	Vishney	10500.00
Lisa	Ozer	11500.00
Harrison	Bloom	10000.00
Ellen	Abel	11000.00
Michael	Hartstein	13000.00
Hermann	Baer	10000.00
Shelley	Higgins	12000.00

19 rows in set (0.01 sec)

```
mysql> select * from department;
```

ERROR 1146 (42S02): Table 'hr_db.department' doesn't exist

```
mysql> select * from departments;
```

department_id	department_name	manager_id	location_id
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400

70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	NULL	1700
130	Corporate Tax	NULL	1700
140	Control And Credit	NULL	1700
150	Shareholder Services	NULL	1700
160	Benefits	NULL	1700
170	Manufacturing	NULL	1700
180	Construction	NULL	1700
190	Contracting	NULL	1700
200	Operations	NULL	1700
210	IT Support	NULL	1700
220	NOC	NULL	1700
230	IT Helpdesk	NULL	1700
240	Government Sales	NULL	1700
250	Retail Sales	NULL	1700
260	Recruiting	NULL	1700
270	Payroll	NULL	1700

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

27 rows in set (0.00 sec)

```
mysql> select * from jobs_history;
ERROR 1146 (42S02): Table 'hr_db.jobs_history' doesn't exist
mysql> select * from job_history;
```

employee_id	start_date	end_date	job_id	department_id
+-----+-----+-----+-----+				
101	1989-09-21	1993-10-27	AC_ACCOUNT	110
101	1993-10-28	1997-03-15	AC_MGR	110
102	1993-01-13	1998-07-24	IT_PROG	60
114	1998-03-24	1999-12-31	ST_CLERK	50
122	1999-01-01	1999-12-31	ST_CLERK	50
176	1998-03-24	1998-12-31	SA_REP	80
176	1999-01-01	1999-12-31	SA_MAN	80
200	1987-09-17	1993-06-17	AD_ASST	90
200	1994-07-01	1998-12-31	AC_ACCOUNT	90
201	1996-02-17	1999-12-19	MK_REP	20

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

10 rows in set (0.00 sec)

```
mysql> select E.first_name , E.last_name , E.job_id , E.department_id , J.job_id , J.job_title , D.department_id , D.d
epartment_name
-> from employees E
-> full join E.job_id = J.job_id
-> ;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL s
erver version for the right syntax to use near 'full join E.job_id = J.job_id' at line 3

```
mysql> select E.first_name , E.last_name , E.job_id , E.department_id , J.job_id , J.job_title , D.department_id , D.d
epartment_name
-> -> from employees E
-> -> join jobs J
```

-> on;
 ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'from employees E

-> join jobs J
 on' at line 2

mysql> select E.first_name , E.last_name , E.job_id , E.department_id , J.job_id , J.job_title , D.department_id , D.department_name

-> from employees E
 -> join jobs J
 -> on E.job_id = J.job_id
 -> join departments D
 -> on E.department_id = D.department_id;

first_name	last_name	job_id	department_id	job_id	job_title	department_id	department_name
William	Gietz	AC_ACCOUNT	110	AC_ACCOUNT	Public Accountant	110	Accounting
Shelley	Higgins	AC_MGR	110	AC_MGR	Accounting Manager	110	Accounting
Jennifer	Whalen	AD_ASST	10	AD_ASST	Administration Assistant	10	Administration
Steven	King	AD PRES	90	AD PRES	President	90	Executive
Neena	Kochhar	AD_VP	90	AD_VP	Administration Vice President	90	Executive
Lex	De Haan	AD_VP	90	AD_VP	Administration Vice President	90	Executive
Daniel	Faviet	FI_ACCOUNT	100	FI_ACCOUNT	Accountant	100	Finance
John	Chen	FI_ACCOUNT	100	FI_ACCOUNT	Accountant	100	Finance
Ismael	Sciarra	FI_ACCOUNT	100	FI_ACCOUNT	Accountant	100	Finance
Jose Manuel	Urman	FI_ACCOUNT	100	FI_ACCOUNT	Accountant	100	Finance
Luis	Popp	FI_ACCOUNT	100	FI_ACCOUNT	Accountant	100	Finance
Nancy	Greenberg	FI_MGR	100	FI_MGR	Finance Manager	100	Finance
Susan	Mavris	HR_REP	40	HR_REP	Human Resources Representative	40	Human Resources
Alexander	Hunold	IT_PROG	60	IT_PROG	Programmer	60	IT
Bruce	Ernst	IT_PROG	60	IT_PROG	Programmer	60	IT
David	Austin	IT_PROG	60	IT_PROG	Programmer	60	IT
Valli	Pataballa	IT_PROG	60	IT_PROG	Programmer	60	IT
Diana	Lorentz	IT_PROG	60	IT_PROG	Programmer	60	IT
Michael	Hartstein	MK_MAN	20	MK_MAN	Marketing Manager	20	Marketing
Pat	Fay	MK_REP	20	MK_REP	Marketing Representative	20	Marketing
Hermann	Baer	PR_REP	70	PR_REP	Public Relations Representative	70	Public Relations

[illegible]

Ellen	Abel	SA_REP		80	SA_REP	Sales Representative		80	Sales	
Alyssa	Hutton	SA_REP		80	SA_REP	Sales Representative		80	Sales	
Jonathon	Taylor	SA_REP		80	SA_REP	Sales Representative		80	Sales	
Jack	Livingston	SA_REP		80	SA_REP	Sales Representative		80	Sales	
Charles	Johnson	SA_REP		80	SA_REP	Sales Representative		80	Sales	
Winston	Taylor	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Jean	Fleaur	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Martha	Sullivan	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Girard	Geoni	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Nandita	Sarchand	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Alexis	Bull	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Julia	Dellinger	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Anthony	Cabrio	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Kelly	Chung	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Jennifer	Dilly	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Timothy	Gates	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Randall	Perkins	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Sarah	Bell	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Britney	Everett	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Samuel	McCain	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Vance	Jones	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Alana	Walsh	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Kevin	Feeney	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Donald	OConnell	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Douglas	Grant	SH_CLERK		50	SH_CLERK	Shipping Clerk		50	Shipping	
Julia	Nayer	ST_CLERK		50	ST_CLERK	Stock Clerk		50	Shipping	
Irene	Mikkilineni	ST_CLERK		50	ST_CLERK	Stock Clerk		50	Shipping	
James	Landry	ST_CLERK		50	ST_CLERK	Stock Clerk		50	Shipping	

Steven	Markle	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Laura	Bissot	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Mozhe	Atkinson	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
James	Marlow	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
TJ	Olson	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Jason	Mallin	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Michael	Rogers	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Ki	Gee	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Hazel	Philtanker	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Renske	Ladwig	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Stephen	Stiles	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
John	Seo	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Joshua	Patel	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Trenna	Rajs	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Curtis	Davies	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Randall	Matos	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Peter	Vargas	ST_CLERK	50	ST_CLERK	Stock Clerk	50	Shipping
Matthew	Weiss	ST_MAN	50	ST_MAN	Stock Manager	50	Shipping
Adam	Fripp	ST_MAN	50	ST_MAN	Stock Manager	50	Shipping
Payam	Kaufling	ST_MAN	50	ST_MAN	Stock Manager	50	Shipping
Shanta	Vollman	ST_MAN	50	ST_MAN	Stock Manager	50	Shipping
Kevin	Mourgos	ST_MAN	50	ST_MAN	Stock Manager	50	Shipping

```

+-----+-----+-----+-----+-----+-----+-----+
-----+
106 rows in set (0.00 sec)

```

```

mysql> SELECT employee_id, job_title, end_date-start_date DAYS
-> FROM job_history
-> NATURAL JOIN jobs
-> WHERE department_id=80;
+-----+-----+-----+
| employee_id | job_title | DAYS |

```

```

+-----+-----+-----+
|      176 | Sales Representative | 907 |
|      176 | Sales Manager      | 1130 |
+-----+-----+-----+
2 rows in set (0.01 sec)

```

mysql> select * from 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 | NULL
|      NULL | 90 |
|      101 | Neena | Kochhar | NKOCHHAR | 515.123.4568 | 1989-09-21 | AD_VP | 17000.00 |
NULL | 100 | 90 |
|      102 | Lex | De Haan | LDEHAAN | 515.123.4569 | 1993-01-13 | AD_VP | 17000.00 | NU
LL | 100 | 90 |
|      103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1990-01-03 | IT_PROG | 9000.00 |
NULL | 102 | 60 |
|      104 | Bruce | Ernst | BERNST | 590.423.4568 | 1991-05-21 | IT_PROG | 6000.00 | NULL
|      103 | 60 |
|      105 | David | Austin | DAUSTIN | 590.423.4569 | 1997-06-25 | IT_PROG | 4800.00 | NUL
L | 103 | 60 |
|      106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1998-02-05 | IT_PROG | 4800.00 | NU
LL | 103 | 60 |
|      107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1999-02-07 | IT_PROG | 4200.00 | N
ULL | 103 | 60 |
|      108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1994-08-17 | FI_MGR | 12000.00 |
NULL | 101 | 100 |
|      109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1994-08-16 | FI_ACCOUNT | 9000.00 | N
ULL | 108 | 100 |
|      110 | John | Chen | JCHEN | 515.124.4269 | 1997-09-28 | FI_ACCOUNT | 8200.00 | NU
LL | 108 | 100 |
|      111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1997-09-30 | FI_ACCOUNT | 7700.00 | N
ULL | 108 | 100 |
|      112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1998-03-07 | FI_ACCOUNT | 7800.00 |
NULL | 108 | 100 |
|      113 | Luis | Popp | LPOPP | 515.124.4567 | 1999-12-07 | FI_ACCOUNT | 6900.00 | NUL
L | 108 | 100 |
|      114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1994-12-07 | PU_MAN | 11000.00 |
NULL | 100 | 30 |
|      115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1995-05-18 | PU_CLERK | 3100.00 | N
ULL | 114 | 30 |
|      116 | Shelli | Baida | SBIDA | 515.127.4563 | 1997-12-24 | PU_CLERK | 2900.00 | NUL
L | 114 | 30 |
|      117 | Sigal | Tobias | STOBIAAS | 515.127.4564 | 1997-07-24 | PU_CLERK | 2800.00 | NU
LL | 114 | 30 |
|      118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1998-11-15 | PU_CLERK | 2600.00 | N
ULL | 114 | 30 |
|      119 | Karen | Colmenares | KCOLMENA | 515.127.4566 | 1999-08-10 | PU_CLERK | 2500.00 |
NULL | 114 | 30 |
|      120 | Matthew | Weiss | MWEISS | 650.123.1234 | 1996-07-18 | ST_MAN | 8000.00 | NU

```


LL	100	50								
	121 Adam	Fripp	AFRIPP	650.123.2234	1997-04-10 ST_MAN	8200.00			NULL	
	100	50								
	122 Payam	Kaufling	PKAUFLIN	650.123.3234	1995-05-01 ST_MAN	7900.00			N	
ULL	100	50								
	123 Shanta	Vollman	SVOLLMAN	650.123.4234	1997-10-10 ST_MAN	6500.00				
NULL	100	50								
	124 Kevin	Mourgos	KMOURGOS	650.123.5234	1999-11-16 ST_MAN	5800.00				
NULL	100	50								
	125 Julia	Nayer	JNAYER	650.124.1214	1997-07-16 ST_CLERK	3200.00			NUL	
L	120	50								
	126 Irene	Mikkilineni	IMIKKILI	650.124.1224	1998-09-28 ST_CLERK	2700.00			NU	
LL	120	50								
	127 James	Landry	JLANDRY	650.124.1334	1999-01-14 ST_CLERK	2400.00			N	
ULL	120	50								
	128 Steven	Markle	SMARKLE	650.124.1434	2000-03-08 ST_CLERK	2200.00			N	
ULL	120	50								
	129 Laura	Bissot	LBISSOT	650.124.5234	1997-08-20 ST_CLERK	3300.00			NUL	
L	121	50								
	130 Mozhe	Atkinson	MATKINSO	650.124.6234	1997-10-30 ST_CLERK	2800.00				
NULL	121	50								
	131 James	Marlow	JAMRLOW	650.124.7234	1997-02-16 ST_CLERK	2500.00				
NULL	121	50								
	132 TJ	Olson	TJOLSON	650.124.8234	1999-04-10 ST_CLERK	2100.00			NUL	
L	121	50								
	133 Jason	Mallin	JMALLIN	650.127.1934	1996-06-14 ST_CLERK	3300.00			NU	
LL	122	50								
	134 Michael	Rogers	MROGERS	650.127.1834	1998-08-26 ST_CLERK	2900.00				
NULL	122	50								
	135 Ki	Gee	KGEE	650.127.1734	1999-12-12 ST_CLERK	2400.00			NULL	
	122	50								
	136 Hazel	Philtanker	HPHILTAN	650.127.1634	2000-02-06 ST_CLERK	2200.00			N	
ULL	122	50								
	137 Renske	Ladwig	RLADWIG	650.121.1234	1995-07-14 ST_CLERK	3600.00				
NULL	123	50								
	138 Stephen	Stiles	SSTILES	650.121.2034	1997-10-26 ST_CLERK	3200.00			NUL	
L	123	50								
	139 John	Seo	JSEO	650.121.2019	1998-02-12 ST_CLERK	2700.00			NULL	
	123	50								
	140 Joshua	Patel	JPATEL	650.121.1834	1998-04-06 ST_CLERK	2500.00			NUL	
L	123	50								
	141 Tenna	Rajs	TRAJS	650.121.8009	1995-10-17 ST_CLERK	3500.00			NULL	
	124	50								
	142 Curtis	Davies	CDAVIES	650.121.2994	1997-01-29 ST_CLERK	3100.00			NU	
LL	124	50								
	143 Randall	Matos	RMATOS	650.121.2874	1998-03-15 ST_CLERK	2600.00			N	
ULL	124	50								
	144 Peter	Vargas	PVARGAS	650.121.2004	1998-07-09 ST_CLERK	2500.00			NU	
LL	124	50								
	145 John	Russell	JRUSSEL	011.44.1344.429268	1996-10-01 SA_MAN	14000.00			0.</	

[illegible]

[illegible]

```

NULL |      100 |      20 |
|      202 | Pat      | Fay      | PFAY      | 603.123.6666      | 1997-08-17 | MK_REP      | 6000.00 |      NULL |
      201 |      20 |
|      203 | Susan    | Mavris    | SMAVRIS    | 515.123.7777      | 1994-06-07 | HR_REP      | 6500.00 |      NUL
L |      101 |      40 |
|      204 | Hermann  | Baer      | HBAER      | 515.123.8888      | 1994-06-07 | PR_REP      | 10000.00 |      NUL
L |      101 |      70 |
|      205 | Shelley  | Higgins    | SHIGGINS    | 515.123.8080      | 1994-06-07 | AC_MGR      | 12000.00 |      N
ULL |      101 |      110 |
|      206 | William  | Gietz      | WGIETZ      | 515.123.8181      | 1994-06-07 | AC_ACCOUNT    | 8300.00 |
NULL |      205 |      110 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+-----+
107 rows in set (0.00 sec)

```

mysql> show tables;

```

+-----+
| Tables_in_hr_db |
+-----+
| countries        |
| departments      |
| emp_details_view |
| employees        |
| job_history       |
| jobs             |
| locations        |
| regions          |
+-----+
8 rows in set (0.00 sec)

```

mysql> select * from departments;

```

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

```

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

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

27 rows in set (0.00 sec)

mysql> select manager_id from departments;

manager_id

NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
NULL
100
103
108
114
121
145
200
201
203
204
205

+-----+

27 rows in set (0.04 sec)

mysql> select first_name , last_name , manager_id from employees;

first_name	last_name	manager_id
Steven	King	NULL
Neena	Kochhar	100
Lex	De Haan	100
Alexander	Hunold	102
Bruce	Ernst	103
David	Austin	103

Valli	Pataballa	103	
Diana	Lorentz	103	
Nancy	Greenberg	101	
Daniel	Faviet	108	
John	Chen	108	
Ismael	Sciarra	108	
Jose Manuel	Urman	108	
Luis	Popp	108	
Den	Raphaely	100	
Alexander	Khoo	114	
Shelli	Baida	114	
Sigal	Tobias	114	
Guy	Himuro	114	
Karen	Colmenares	114	
Matthew	Weiss	100	
Adam	Fripp	100	
Payam	Kaufling	100	
Shanta	Vollman	100	
Kevin	Mourgos	100	
Julia	Nayer	120	
Irene	Mikkilineni	120	
James	Landry	120	
Steven	Markle	120	
Laura	Bissot	121	
Mozhe	Atkinson	121	
James	Marlow	121	
TJ	Olson	121	
Jason	Mallin	122	
Michael	Rogers	122	
Ki	Gee	122	
Hazel	Philtanker	122	
Renske	Ladwig	123	
Stephen	Stiles	123	
John	Seo	123	
Joshua	Patel	123	
Trena	Rajs	124	
Curtis	Davies	124	
Randall	Matos	124	
Peter	Vargas	124	
John	Russell	100	
Karen	Partners	100	
Alberto	Errazuriz	100	
Gerald	Cambrault	100	
Eleni	Zlotkey	100	
Peter	Tucker	145	
David	Bernstein	145	
Peter	Hall	145	
Christopher	Olsen	145	
Nanette	Cambrault	145	
Oliver	Tuvault	145	
Janette	King	146	
Patrick	Sully	146	
Allan	McEwen	146	
Lindsey	Smith	146	

Louise	Doran	146
Sarath	Sewall	146
Clara	Vishney	147
Danielle	Greene	147
Mattea	Marvins	147
David	Lee	147
Sundar	Ande	147
Amit	Banda	147
Lisa	Ozer	148
Harrison	Bloom	148
Tayler	Fox	148
William	Smith	148
Elizabeth	Bates	148
Sundita	Kumar	148
Ellen	Abel	149
Alyssa	Hutton	149
Jonathon	Taylor	149
Jack	Livingston	149
Kimberely	Grant	149
Charles	Johnson	149
Winston	Taylor	120
Jean	Fleur	120
Martha	Sullivan	120
Girard	Geoni	120
Nandita	Sarchand	121
Alexis	Bull	121
Julia	Dellinger	121
Anthony	Cabrio	121
Kelly	Chung	122
Jennifer	Dilly	122
Timothy	Gates	122
Randall	Perkins	122
Sarah	Bell	123
Britney	Everett	123
Samuel	McCain	123
Vance	Jones	123
Alana	Walsh	124
Kevin	Feeney	124
Donald	OConnell	124
Douglas	Grant	124
Jennifer	Whalen	101
Michael	Hartstein	100
Pat	Fay	201
Susan	Mavris	101
Hermann	Baer	101
Shelley	Higgins	101
William	Gietz	205

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

107 rows in set (0.00 sec)

mysql> select location_id from departments;

location_id

+-----+

	1400	
	1500	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1700	
	1800	
	2400	
	2500	
	2700	

+-----+

27 rows in set (0.00 sec)

mysql> select location_id from locations;

+-----+

| location_id |

+-----+

	1000	
	1100	
	1200	
	1300	
	1400	
	1500	
	1600	
	1700	
	1800	
	1900	
	2000	
	2100	
	2200	
	2300	
	2400	
	2500	
	2600	
	2700	
	2800	
	2900	

	3000	
	3100	
	3200	

+-----+

23 rows in set (0.01 sec)

```
mysql> select location_id from countries;
ERROR 1054 (42S22): Unknown column 'location_id' in 'field list'
mysql> select country_id from countries;
```

+-----+

	country_id	
--	------------	--

+-----+

	BE	
	CH	
	DE	
	DK	
	FR	
	IT	
	NL	
	UK	
	AR	
	BR	
	CA	
	MX	
	US	
	AU	
	CN	
	HK	
	IN	
	JP	
	SG	
	EG	
	IL	
	KW	
	NG	
	ZM	
	ZW	

+-----+

25 rows in set (0.01 sec)

```
mysql> select D.location_id , L.location_id
-> from departments
-> ;
ERROR 1054 (42S22): Unknown column 'D.location_id' in 'field list'
mysql> select D.location_id , L.location_id
-> from departments D
-> join locations L
-> on D.location_id = L.location_id;
```

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

	location_id		location_id	
--	-------------	--	-------------	--

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

	1400		1400	
	1500		1500	
	1700		1700	

1700	1700
1700	1700
1700	1700
1700	1700
1700	1700
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1700	1700
1700	1700
1700	1700
1700	1700
1700	1700
1700	1700
1700	1700
1700	1700
1800	1800
2400	2400
2500	2500
2700	2700

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

27 rows in set (0.00 sec)

```
mysql> select D.location_id , L.location_id , L.country_id
-> from departments
-> ;
ERROR 1054 (42S22): Unknown column 'D.location_id' in 'field list'
mysql> select L.location_id , L.country_id , D.location_id , count(*)
-> from locations L
-> join departments D
-> on L.location_id = D.location_id;
```

location_id	country_id	location_id	count(*)
1400	US	1400	27

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

1 row in set (0.00 sec)

```
mysql> select country_name , city , department_name
-> from countries
-> join locations using (country_id)
-> join departments using (location_id);
```

country_name	city	department_name
United States of America	Seattle	Administration
Canada	Toronto	Marketing
United States of America	Seattle	Purchasing
United Kingdom	London	Human Resources
United States of America	South San Francisco	Shipping

United States of America	Southlake	IT
Germany	Munich	Public Relations
United Kingdom	Oxford	Sales
United States of America	Seattle	Executive
United States of America	Seattle	Finance
United States of America	Seattle	Accounting
United States of America	Seattle	Treasury
United States of America	Seattle	Corporate Tax
United States of America	Seattle	Control And Credit
United States of America	Seattle	Shareholder Services
United States of America	Seattle	Benefits
United States of America	Seattle	Manufacturing
United States of America	Seattle	Construction
United States of America	Seattle	Contracting
United States of America	Seattle	Operations
United States of America	Seattle	IT Support
United States of America	Seattle	NOC
United States of America	Seattle	IT Helpdesk
United States of America	Seattle	Government Sales
United States of America	Seattle	Retail Sales
United States of America	Seattle	Recruiting
United States of America	Seattle	Payroll

+-----+-----+-----+
27 rows in set (0.00 sec)

```
mysql> select country_name , city , department_name , count(*)
-> from countries
-> join locations using (country_id)
-> join departments using (location_id);
```

country_name	city	department_name	count(*)
United States of America	Seattle	Administration	27

+-----+-----+-----+
1 row in set (0.01 sec)

```
mysql> Assignment_1_SQL_done;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Assignment_1_SQL_done' at line 1

```
mysql>
```