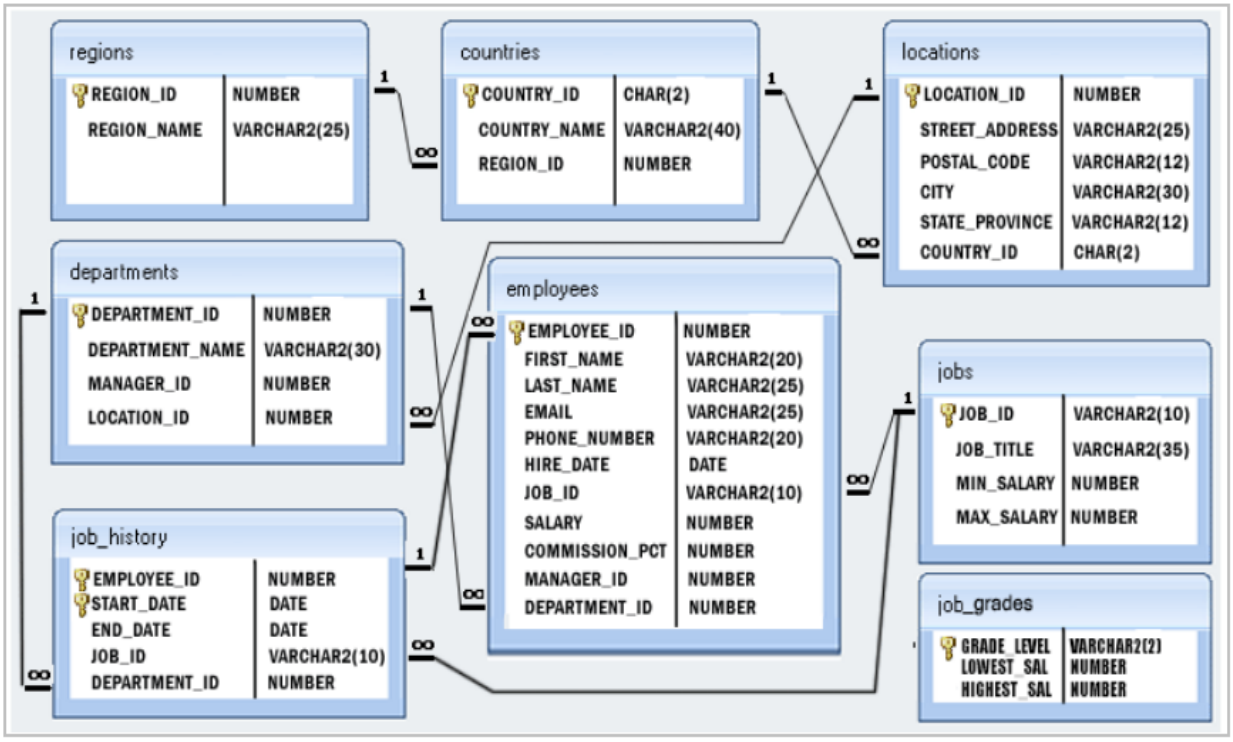
SQL Exercise on Joins:

Structure of HR database :



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1. From the following tables, write a SQL query to find the first name, last name, department number, and department name for each employee. Go to the editor

Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500

Sample table: employees

BER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
567	2003-06-17	AD_PRES	24000.00	0.00	0	90
568	2005-09-21	AD_VP	17000.00	0.00	100	90
569	2001-01-13	AD_VP	17000.00	0.00	100	90
567	2006-01-03	IT_PROG	9000.00	0.00	102	60
568	2007-05-21	IT_PROG	6000.00	0.00	103	60
569	2005-06-25	IT_PROG	4800.00	0.00	103	60
560	2006-02-05	IT_PROG	4800.00	0.00	103	60

2. From the following tables, write a SQL query to find the first name, last name, department, city, and state province for each employee. Go to the editor

Sample table: departments

40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500
90	Executive	100	1700
100	Finance	108	1700
110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_

Sample table: locations

LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY
1000	1297 Via Cola di Rie	989	Roma

3. From the following table, write a SQL query to find the first name, last name, salary, and job grade for all employees. Go to the editor

Sample table: employees

110	John	Chen	JCHEN	515.124.4269	2005-09-28	FI_
111	Ismael	Sciarra	ISCIARRA	515.124.4369	2005-09-30	FI_
112	Jose Manuel	Urman	JMURMAN	515.124.4469	2006-03-07	FI_
113	Luis	Popp	LPOPP	515.124.4567	2007-12-07	FI_
114	Den	Raphaely	DRAPHEAL	515.127.4561	2002-12-07	PU_
115	Alexander	Khoo	AKHOO	515.127.4562	2003-05-18	PU_
116	Shelli	Baida	SBAIDA	515.127.4563	2005-12-24	PU_
117	Sigal	Tobias	STOBIAS	515.127.4564	2005-07-24	PU_
118	Guy	Himuro	GHIMURO	515.127.4565	2006-11-15	PU_
119	Karen	Colmenares	KCOLMENA	515.127.4566	2007-08-10	PU_

Sample table: job_grades

GRADE_LEVEL	LOWEST_SAL	HIGHEST_SAL
A	1000	2999
B	3000	5999
C	6000	9999
D	10000	14999
E	15000	24999
F	25000	40000

4. From the following tables, write a SQL query to find all those employees who work in department ID 80 or 40. Return first name, last name, department number and department name. Go to the editor

Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_

5. From the following tables, write a SQL query to find those employees whose first name contains the letter 'z'. Return first name, last name, department, city, and state province.

Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500

Sample table: employees

103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_
107	Diana	Lorentz	DLORENTZ	590.423.5567	2007-02-07	IT_
108	Nancy	Greenberg	NGREENBE	515.124.4569	2002-08-17	FI_
109	Daniel	Faviet	DFAVIET	515.124.4169	2002-08-16	FI_
110	John	Chen	JCHEN	515.124.4269	2005-09-28	FI_
111	Ismael	Sciarra	ISCIARRA	515.124.4369	2005-09-30	FI_
112	Jose Manuel	Urman	JMURMAN	515.124.4469	2006-03-07	FI_

Sample table: locations

LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY
1000	1297 Via Cola di Rie	989	Roma

13. From the following tables, write a SQL query to find all employees who joined on 1st January 1993 and left on or before 31 August 1997. Return job title, department name, employee name, and joining date of the job. Go to the editor

Sample table: job_history

EMPLOYEE_ID	START_DATE	END_DATE	JOB_ID	DEPARTMENT_ID
102	2001-01-13	2006-07-24	IT_PROG	60
101	1997-09-21	2001-10-27	AC_ACCOUNT	110
101	2001-10-28	2005-03-15	AC_MGR	110
201	2004-02-17	2007-12-19	MK_REP	20
114	2006-03-24	2007-12-31	ST_CLERK	50
122	2007-01-01	2007-12-31	ST_CLERK	50
200	1995-09-17	2001-06-17	AD_ASST	90
176	2006-03-24	2006-12-31	SA_REP	80

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_

Sample table: jobs

JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
AD_PRES	President	20080	40000

Sample Table: departments

(Hint: Use all 4 tables to get the output)

14. From the following tables, write a SQL query to calculate the difference between the maximum salary of the job and the employee's salary. Return job title, employee name, and salary difference. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_P
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_V
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_V
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_P
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_P
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_P
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_P

Sample table: jobs

JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
AD_PRES	President	20080	40000
AD_VP	Administration Vice President	15000	30000
AD_ASST	Administration Assistant	3000	6000
FI_MGR	Finance Manager	8200	16000
FI_ACCOUNT	Accountant	4200	9000
AC_MGR	Accounting Manager	8200	16000
AC_ACCOUNT	Public Accountant	4200	9000
SA_MAN	Sales Manager	10000	20080

15. From the following table, write a SQL query to calculate the average salary, the number of employees receiving commissions in that department. Return department name, average salary and number of employees. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_P
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_V
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_V
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_P
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_P
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_P
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_P

Sample table : departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500

16. From the following tables, write a SQL query to calculate the difference between the maximum salary and the salary of all the employees who work in the department of ID 80. Return job title, employee name and salary difference. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_P
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_V
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_V
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_P
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_P
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_P
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_P

Sample table: jobs

JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
AD_PRES	President	20080	40000
AD_VP	Administration Vice President	15000	30000
AD_ASST	Administration Assistant	3000	6000

17. From the following table, write a SQL query to find the name of the country, city, and departments, which are running there. Go to the editor

Sample table: 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

Sample table: locations

LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY
1000	1297 Via Cola di Rie	989	Roma
1100	93091 Calle della Testa	10934	Venice
1200	2017 Shinjuku-ku	1689	Tokyo
1300	9450 Kamiya-cho	6823	Hiroshima
1400	2014 Jabberwocky Rd	26192	Southlake
1500	2011 Interiors Blvd	99236	South San Francisco
1600	2007 Zagora St	50090	South Brunswick

Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800

18. From the following tables, write a SQL query to find the department name and the full name (first and last name) of the manager. Go to the editor

Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500

Sample table: employees

FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
Steven	King	SKING	515.123.4567	2003-06-17	AD_PRES	24000.(
Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_VP	17000.(
Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_VP	17000.(
Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_PROG	9000.(
Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_PROG	6000.(
David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_PROG	4800.(
Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_PROG	4800.(

19. From the following table, write a SQL query to calculate the average salary of employees for each job title. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_P
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_V
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_V
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_P
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_P
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_P
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_P

Sample table: jobs

JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
AD_PRES	President	20080	40000
AD_VP	Administration Vice President	15000	30000
AD_ASST	Administration Assistant	3000	6000
FI_MGR	Finance Manager	8200	16000
FI_ACCOUNT	Accountant	4200	9000
AC_MGR	Accounting Manager	8200	16000
AC_ACCOUNT	Public Accountant	4200	9000

20. From the following table, write a SQL query to find the employees who earn $12000 or more. Return employee ID, starting date, end date, job ID and department ID. Go to the editor

Sample table: employees

123	Shanta	Vollman	SVOLLMAN	650.123.4234	2005-10-10	ST_
124	Kevin	Mourgos	KMOURGOS	650.123.5234	2007-11-16	ST_
125	Julia	Nayer	JNAYER	650.124.1214	2005-07-16	ST_
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	2006-09-28	ST_
127	James	Landry	JLANDRY	650.124.1334	2007-01-14	ST_
128	Steven	Markle	SMARKLE	650.124.1434	2008-03-08	ST_
129	Laura	Bissot	LBISSOT	650.124.5234	2005-08-20	ST_
130	Mozhe	Atkinson	MATKINSO	650.124.6234	2005-10-30	ST_
131	James	Marlow	JAMRLOW	650.124.7234	2005-02-16	ST_
132	TJ	Olson	TJOLSON	650.124.8234	2007-04-10	ST_

Sample table: job_history

EMPLOYEE_ID	START_DATE	END_DATE	JOB_ID	DEPARTMENT_ID
102	2001-01-13	2006-07-24	IT_PROG	60
101	1997-09-21	2001-10-27	AC_ACCOUNT	110
101	2001-10-28	2005-03-15	AC_MGR	110
201	2004-02-17	2007-12-19	MK_REP	20
114	2006-03-24	2007-12-31	ST_CLERK	50
122	2007-01-01	2007-12-31	ST_CLERK	50
200	1995-09-17	2001-06-17	AD_ASST	90
176	2006-03-24	2006-12-31	SA_REP	80

21. From the following tables, write a SQL query to find out which departments have at least two employees. Group the result set on country name and city. Return country name, city, and number. Go to the editor

Sample table: countries

KW	Kuwait	4
ML	Malaysia	3
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

Sample table: locations

LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY
1000	1297 Via Cola di Rie	989	Roma
1100	93091 Calle della Testa	10934	Venice
1200	2017 Shinjuku-ku	1689	Tokyo
1300	9450 Kamiya-cho	6823	Hiroshima
1400	2014 Jabberwocky Rd	26192	Southlake
1500	2011 Interiors Blvd	99236	South San Francisco
1600	2007 Zagora St	50090	South Brunswick

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_

Sample table: Departments (Use all 4 tables)

22. From the following tables, write a SQL query to find the department name, full name (first and last name) of the manager and their city. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_P
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_V
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_V
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_P
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_P
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_P
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_P

Sample table: departments

110	Accounting	205	1700
120	Treasury	0	1700
130	Corporate Tax	0	1700
140	Control And Credit	0	1700
150	Shareholder Services	0	1700
160	Benefits	0	1700
170	Manufacturing	0	1700
180	Construction	0	1700
190	Contracting	0	1700
200	Operations	0	1700
210	IT Support	0	1700

Sample table: locations

LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY
1000	1297 Via Cola di Rie	989	Roma

23. From the following tables, write a SQL query to calculate the number of days worked by employees in a department of ID 80. Return employee ID, job title, number of days worked. Go to the editor

Sample table: jobs

JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
AD_PRES	President	20080	40000
AD_VP	Administration Vice President	15000	30000
AD_ASST	Administration Assistant	3000	6000
FI_MGR	Finance Manager	8200	16000
FI_ACCOUNT	Accountant	4200	9000
AC_MGR	Accounting Manager	8200	16000
AC_ACCOUNT	Public Accountant	4200	9000
SA_MAN	Sales Manager	10000	20080

Sample table: job_history

EMPLOYEE_ID	START_DATE	END_DATE	JOB_ID	DEPARTMENT_ID
102	2001-01-13	2006-07-24	IT_PROG	60
101	1997-09-21	2001-10-27	AC_ACCOUNT	110
101	2001-10-28	2005-03-15	AC_MGR	110
201	2004-02-17	2007-12-19	MK_REP	20
114	2006-03-24	2007-12-31	ST_CLERK	50
122	2007-01-01	2007-12-31	ST_CLERK	50
200	1995-09-17	2001-06-17	AD_ASST	90

24. From the following tables, write a SQL query to find full name (first and last name), and salary of all employees working in any department in the city of London. Go to the editor

Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500

Sample table: locations

2000	40-5-12 Laogianggen	190518	Beijing
2100	1298 Vileparle (E)	490231	Bombay
2200	12-98 Victoria Street	2901	Sydney
2300	198 Clementi North	540198	Singapore
2400	8204 Arthur St		London
2500	Magdalen Centre, The Oxford Science Park	OX9 9ZB	Oxford
2600	9702 Chester Road	9629850293	Stretford
2700	Schwanthalerstr. 7031	80925	Munich
2800	Rua Frei Caneca 1360	01307-002	Sao Paulo
2900	20 Rue des Corps-Saints	1730	Geneva

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_

26. From the following tables, write a SQL query to find the department name, department ID, and number of employees in each department. Go to the editor

Sample table: departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
20	Marketing	201	1800
30	Purchasing	114	1700
40	Human Resources	203	2400
50	Shipping	121	1500
60	IT	103	1400
70	Public Relations	204	2700
80	Sales	145	2500

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_

27. From the following tables, write a SQL query to find out the full name (first and last name) of the employee with an ID and the name of the country where he/she is currently employed. Go to the editor

Sample table: 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

Sample table: locations

LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY
1000	1297 Via Cola di Rie	989	Roma
1100	93091 Calle della Testa	10934	Venice
1200	2017 Shinjuku-ku	1689	Tokyo
1300	9450 Kamiya-cho	6823	Hiroshima
1400	2014 Jabberwocky Rd	26192	Southlake
1500	2011 Interiors Blvd	99236	South San Francisco
1600	2007 Zagora St	50090	South Brunswick

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_

Sample table: Departments

Hint: Use all 4 tables find the result

7. From the following table, write a SQL query to find the employees who earn less than the employee of ID 182. Return first name, last name and salary. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_

Sample Output:

first_name	last_name	salary
James	Landry	2400.00
Steven	Markle	2200.00

8. From the following table, write a SQL query to find the employees and their managers. Return the first name of the employee and manager. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_

Sample Output:

Employee Name	Manager
Neena	Steven
Lex	Steven

11. From the following table, write a SQL query to find the employees and their managers. These managers do not work under any manager. Return the first name of the employee and manager. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_

Sample Output:

```
Employee Name   Manager
Steven
Neena           Steven
```

12. From the following tables, write a SQL query to find the employees who work in the same department as the employee with the last name Taylor. Return first name, last name and department ID. Go to the editor

Sample table: employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_
100	Steven	King	SKING	515.123.4567	2003-06-17	AD_
101	Neena	Kochhar	NKOCHHAR	515.123.4568	2005-09-21	AD_
102	Lex	De Haan	LDEHAAN	515.123.4569	2001-01-13	AD_
103	Alexander	Hunold	AHUNOLD	590.423.4567	2006-01-03	IT_
104	Bruce	Ernst	BERNST	590.423.4568	2007-05-21	IT_
105	David	Austin	DAUSTIN	590.423.4569	2005-06-25	IT_
106	Valli	Pataballa	VPATABAL	590.423.4560	2006-02-05	IT_

Sample Output:

```
first_name      last_name       department_id
Matthew         Weiss           50
Adam            Fripp           50
```