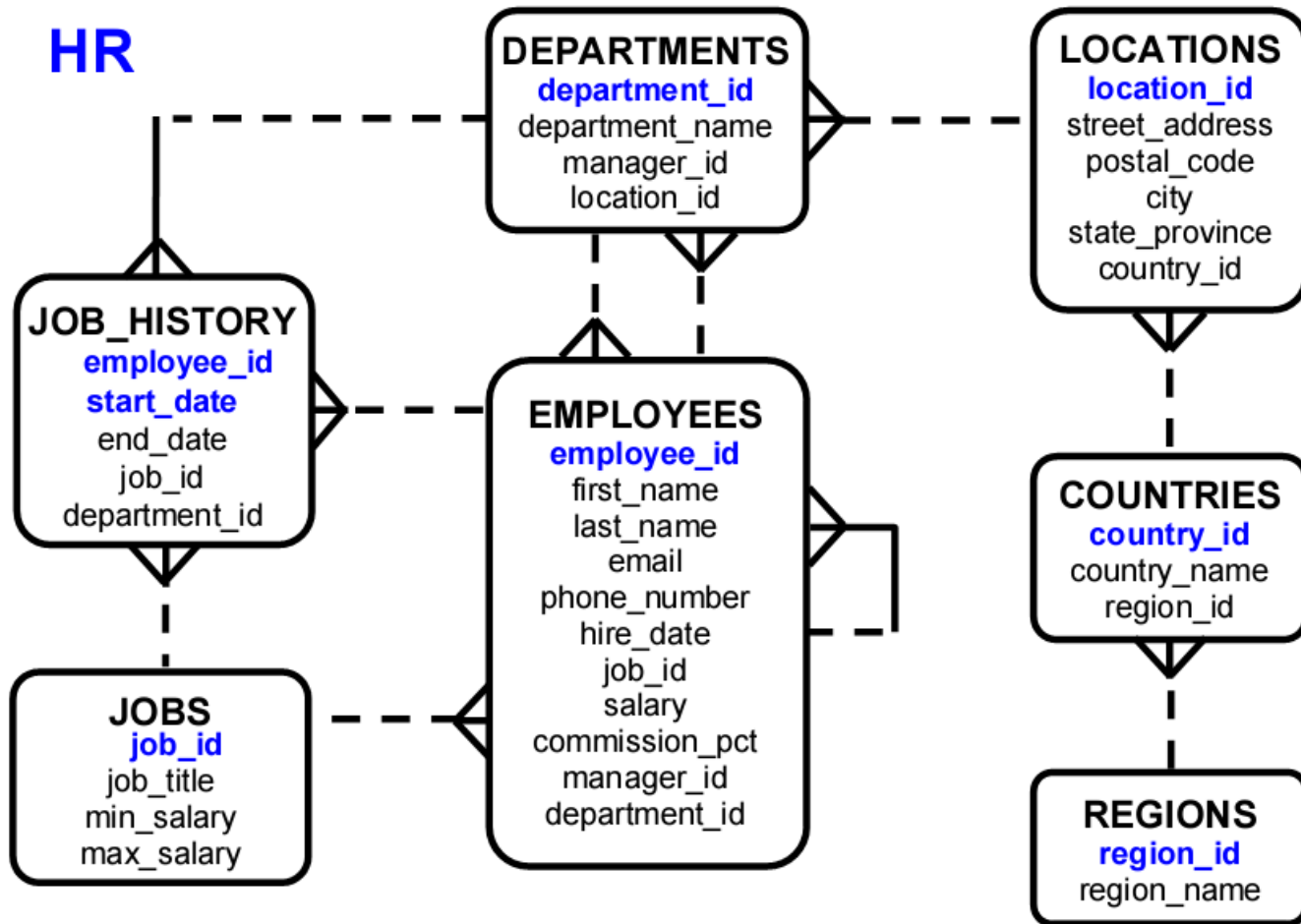HR 소유 테이블 관계도

HR – EMPLOYEES 테이블

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	03/06/17	AD_PRES	24000	(null)	(null)	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	05/09/21	AD_VP	17000	(null)	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	01/01/13	AD_VP	17000	(null)	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	06/01/03	IT_PROG	9000	(null)	102	60
104	Bruce	Ernst	BERNST	590.423.4568	07/05/21	IT_PROG	6000	(null)	103	60
105	David	Austin	DAUSTIN	590.423.4569	05/06/25	IT_PROG	4800	(null)	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	06/02/05	IT_PROG	4800	(null)	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	07/02/07	IT_PROG	4200	(null)	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	02/08/17	FI_MGR	12008	(null)	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	02/08/16	FI_ACCOUNT	9000	(null)	108	100
110	John	Chen	JCHEN	515.124.4269	05/09/28	FI_ACCOUNT	8200	(null)	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	05/09/30	FI_ACCOUNT	7700	(null)	108	100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	06/03/07	FI_ACCOUNT	7800	(null)	108	100
113	Luis	Popp	LPOPP	515.124.4567	07/12/07	FI_ACCOUNT	6900	(null)	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	02/12/07	PU_MAN	11000	(null)	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	03/05/18	PU_CLERK	3100	(null)	114	30

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200	Jennifer	Whalen	JWHALEN	515.123.4444	03/09/17	AD_ASST	4400	(null)	101	10
201	Michael	Hartstein	MHARTSTE	515.123.5555	04/02/17	MK_MAN	13000	(null)	100	20
202	Pat	Fay	PFAY	603.123.6666	05/08/17	MK_REP	6000	(null)	201	20
203	Susan	Mavris	SMAVRIS	515.123.7777	02/06/07	HR_REP	6500	(null)	101	40
204	Hermann	Baer	HBAER	515.123.8888	02/06/07	PR_REP	10000	(null)	101	70
205	Shelley	Higgins	SHIGGINS	515.123.8080	02/06/07	AC_MGR	12008	(null)	101	110
206	William	Gietz	WGIETZ	515.123.8181	02/06/07	AC_ACCO...	8300	(null)	205	110

HR – DEPARTMENTS 테이블

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

HR – LOCATIONS 테이블

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

HR – JOBS 테이블

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
SA_REP	Sales Representative	6000	12008
PU_MAN	Purchasing Manager	8000	15000
PU_CLERK	Purchasing Clerk	2500	5500
ST_MAN	Stock Manager	5500	8500
ST_CLERK	Stock Clerk	2008	5000
SH_CLERK	Shipping Clerk	2500	5500
IT_PROG	Programmer	4000	10000
MK_MAN	Marketing Manager	9000	15000
MK_REP	Marketing Representative	4000	9000
HR_REP	Human Resources Representative	4000	9000
PR_REP	Public Relations Representative	4500	10500

Employees

EMPLOYEE_ID	LAST_NAME	MANAGER_ID	SALARY	DEPARTMENT_ID
100	King	(null)	24000	90
101	Kochhar	100	17000	90
102	De Haan	100	17000	90
103	Hunold	102	9000	60
104	Ernst	103	6000	60
105	Austin	103	4800	60
106	Pataballa	103	4800	60
107	Lorentz	103	4200	60
108	Greenberg	101	12008	100
109	Faviet	108	9000	100
110	Chen	108	8200	100
111	Sciarra	108	7700	100
112	Urman	108	7800	100
113	Popp	108	6900	100
114	Raphaely	100	11000	30
115	Khoo	114	3100	30
116	Baida	114	2900	30
117	Tobias	114	2800	30
118	Himuro	114	2600	30
119	Colmenares	114	2500	30
120	Weiss	100	8000	50
121	Fripp	100	8200	50
122	Kaufling	100	7900	50
123	Vollman	100	6500	50
124	Mourgos	100	5800	50
125	Nayer	120	3200	50

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

e1

Employees

EMPLOYEE_ID	LAST_NAME	MANAGER_ID	SALARY	DEPARTMENT_ID
100	King	(null)	24000	90
101	Kochhar	100	17000	90
102	De Haan	100	17000	90
103	Hunold	102	9000	60
104	Ernst	103	6000	60
105	Austin	103	4800	60
106	Pataballa	103	4800	60
107	Lorentz	103	4200	60
108	Greenberg	101	12008	100
109	Faviet	108	9000	100
110	Chen	108	8200	100
111	Sciarra	108	7700	100
112	Urman	108	7800	100
113	Popp	108	6900	100
114	Raphaely	100	11000	30
115	Khoo	114	3100	30
116	Baida	114	2900	30
117	Tobias	114	2800	30
118	Himuro	114	2600	30
119	Colmenares	114	2500	30
120	Weiss	100	8000	50
121	Fripp	100	8200	50
122	Kaufling	100	7900	50
123	Vollman	100	6500	50
124	Mourgos	100	5800	50
125	Nayer	120	3200	50

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e2

Employees

EMPLOYEE_ID	LAST_NAME	MANAGER_ID	SALARY	DEPARTMENT_ID
100	King	(null)	24000	90
101	Kochhar	100	17000	90
102	De Haan	100	17000	90
103	Hunold	102	9000	60
104	Ernst	103	6000	60
105	Austin	103	4800	60
106	Pataballa	103	4800	60
107	Lorentz	103	4200	60
108	Greenberg	101	12008	100
109	Faviet	108	9000	100
110	Chen	108	8200	100
111	Sciarra	108	7700	100
112	Urman	108	7800	100
113	Popp	108	6900	100
114	Raphaely	100	11000	30
115	Khoo	114	3100	30
116	Baida	114	2900	30
117	Tobias	114	2800	30
118	Himuro	114	2600	30
119	Colmenares	114	2500	30
120	Weiss	100	8000	50
121	Fripp	100	8200	50
122	Kaufling	100	7900	50
123	Vollman	100	6500	50
124	Mourgos	100	5800	50
125	Nayer	120	3200	50

⋮

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

Locations

LOCATION_ID	CITY	STREET_ADDRESS
1000	Roma	1297 Via Cola di Rie
1100	Venice	93091 Calle della Testa
1200	Tokyo	2017 Shinjuku-ku
1300	Hiroshima	9450 Kamiya-cho
1400	Southlake	2014 Jabberwocky Rd
1500	South San Francisco	2011 Interiors Blvd
1600	South Brunswick	2007 Zagora St
1700	Seattle	2004 Charade Rd
1800	Toronto	147 Spadina Ave
1900	Whitehorse	6092 Boxwood St
2000	Beijing	40-5-12 Laogianggen
2100	Bombay	1298 Vileparle (E)
2200	Sydney	12-98 Victoria Street
2300	Singapore	198 Clementi North
2400	London	8204 Arthur St
2500	Oxford	Magdalen Centre, The Oxford Science Park
2600	Stretford	9702 Chester Road
2700	Munich	Schwanthalerstr. 7031
2800	Sao Paulo	Rua Frei Caneca 1360
2900	Geneva	20 Rue des Corps-Saints
3000	Bern	Murtenstrasse 921
3100	Utrecht	Pieter Breughelstraat 837
3200	Mexico City	Mariano Escobedo 9991

Employees

EMPLOYEE_ID	LAST_NAME	MANAGER_ID	SALARY	DEPARTMENT_ID
100	King	(null)	24000	90
101	Kochhar	100	17000	90
102	De Haan	100	17000	90
103	Hunold	102	9000	60
104	Ernst	103	6000	60
105	Austin	103	4800	60
106	Pataballa	103	4800	60
107	Lorentz	103	4200	60
108	Greenberg	101	12008	100
109	Faviet	108	9000	100
110	Chen	108	8200	100
111	Sciarra	108	7700	100
112	Urman	108	7800	100
113	Popp	108	6900	100
114	Raphaely	100	11000	30
115	Khoo	114	3100	30
116	Baida	114	2900	30
117	Tobias	114	2800	30
118	Himuro	114	2600	30
119	Colmenares	114	2500	30
120	Weiss	100	8000	50
121	Fripp	100	8200	50
122	Kaufling	100	7900	50
123	Vollman	100	6500	50
124	Mourgos	100	5800	50
125	Nayer	120	3200	50

Jobs

JOB_ID	JOB_TITLE
AD_PRES	President
AD_VP	Administration Vice President
AD_ASST	Administration Assistant
FI_MGR	Finance Manager
FI_ACCOUNT	Accountant
AC_MGR	Accounting Manager
AC_ACCOUNT	Public Accountant
SA_MAN	Sales Manager
SA_REP	Sales Representative
PU_MAN	Purchasing Manager
PU_CLERK	Purchasing Clerk
ST_MAN	Stock Manager
ST_CLERK	Stock Clerk
SH_CLERK	Shipping Clerk
IT_PROG	Programmer
MK_MAN	Marketing Manager
MK_REP	Marketing Representative
HR_REP	Human Resources Representative
PR_REP	Public Relations Representative

Employees

EMPLOYEE_ID	LAST_NAME	MANAGER_ID	SALARY	DEPARTMENT_ID
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101	Kochhar	100	17000	90
102	De Haan	100	17000	90
103	Hunold	102	9000	60
104	Ernst	103	6000	60
105	Austin	103	4800	60
106	Pataballa	103	4800	60
107	Lorentz	103	4200	60
108	Greenberg	101	12008	100
109	Faviet	108	9000	100
110	Chen	108	8200	100
111	Sciarra	108	7700	100
112	Urman	108	7800	100
113	Popp	108	6900	100
114	Raphaely	100	11000	30
115	Khoo	114	3100	30
116	Baida	114	2900	30
117	Tobias	114	2800	30
118	Himuro	114	2600	30
119	Colmenares	114	2500	30
120	Weiss	100	8000	50
121	Fripp	100	8200	50
122	Kaufling	100	7900	50
123	Vollman	100	6500	50
124	Mourgos	100	5800	50
125	Nayer	120	3200	50

Departments

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
10	Administration	200	1700
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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

Locations

LOCATION_ID	CITY	STREET_ADDRESS
1000	Roma	1297 Via Cola di Rie
1100	Venice	93091 Calle della Testa
1200	Tokyo	2017 Shinjuku-ku
1300	Hiroshima	9450 Kamiya-cho
1400	Southlake	2014 Jabberwocky Rd
1500	South San Francisco	2011 Interiors Blvd
1600	South Brunswick	2007 Zagora St
1700	Seattle	2004 Charade Rd
1800	Toronto	147 Spadina Ave
1900	Whitehorse	6092 Boxwood St
2000	Beijing	40-5-12 Laogianggen
2100	Bombay	1298 Vileparle (E)
2200	Sydney	12-98 Victoria Street
2300	Singapore	198 Clementi North
2400	London	8204 Arthur St
2500	Oxford	Magdalen Centre, The Oxford Science Park
2600	Stretford	9702 Chester Road
2700	Munich	Schwanthalerstr. 7031
2800	Sao Paulo	Rua Frei Caneca 1360
2900	Geneva	20 Rue des Corps-Saints
3000	Bern	Murtenstrasse 921
3100	Utrecht	Pieter Breughelstraat 837
3200	Mexico City	Mariano Escobedo 9991

Employees

	EMPLOYEE_ID	LAST_NAME	JOB_ID	HIRE_DATE	DEPARTMENT_ID
1	200 Whalen	AD_ASST	17-SEP-87	10
2	201 Hartstein	MK_MAN	17-FEB-96	20
3	202 Fay	MK_REP	17-AUG-97	20
4	205 Higgins	AC_MGR	07-JUN-94	110
5	206 Gietz	AC_ACCOUNT	07-JUN-94	110
6	100 King	AD_PRES	17-JUN-87	90
7	101 Kochhar	AD_VP	21-SEP-89	90
8	102 De Haan	AD_VP	13-JAN-93	90
9	103 Hunold	IT_PROG	03-JAN-90	60
10	104 Ernst	IT_PROG	21-MAY-91	60
11	107 Lorentz	IT_PROG	07-FEB-99	60
12	124 Mourgos	ST_MAN	16-NOV-99	50
13	141 Rajs	ST_CLERK	17-OCT-95	50
14	142 Davies	ST_CLERK	29-JAN-97	50
15	143 Matos	ST_CLERK	15-MAR-98	50
16	144 Vargas	ST_CLERK	09-JUL-98	50
17	149 Zlotkey	SA_MAN	29-JAN-00	80
18	174 Abel	SA_REP	11-MAY-96	80
19	176 Taylor	SA_REP	24-MAR-98	80
20	178 Grant	SA_REP	24-MAY-99	(null)

Job_history

	EMPLOYEE_ID	START_DATE	END_DATE	JOB_ID	DEPARTMENT_ID
1	102 13-JAN-93	24-JUL-98	IT_PROG	60
2	101 21-SEP-89	27-OCT-93	AC_ACCOUNT	110
3	101 28-OCT-93	15-MAR-97	AC_MGR	110
4	201 17-FEB-96	19-DEC-99	MK_REP	20
5	114 24-MAR-98	31-DEC-99	ST_CLERK	50
6	122 01-JAN-99	31-DEC-99	ST_CLERK	50
7	200 17-SEP-87	17-JUN-93	AD_ASST	90
8	176 24-MAR-98	31-DEC-98	SA_REP	80
9	176 01-JAN-99	31-DEC-99	SA_MAN	80
10	200 01-JUL-94	31-DEC-98	AC_ACCOUNT	90

JOB_HISTORY
employee_id
start_date
end_date
job_id
department_id

DEPARTMENTS
department_id
department_name
manager_id
location_id

LOCATIONS
location_id
street_address
postal_code
city
state_province
country_id

JOBS
job_id
job_title
min_salary
max_salary

EMPLOYEES
employee_id
first_name
last_name
email
phone_number
hire_date
job_id
salary
commission_pct
manager_id
department_id

COUNTRIES
country_id
country_name
region_id

REGIONS
region_id
region_name

EMPLOYEES 테이블과 DEPARTMENTS 테이블을 사용하여 최상위 소득자 순으로 10위에서 20위에 해당하는 사원들의 정보를 출력하시오.

<출력 테이블 형식>

RANK	EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
순위	사원 아이디	사원 이름	급여	부서 아이디	부서 이름

employee_id	last_name	job_id	salary	manager_id	department_id
100	King	AD_PRES	24000	null	90
101	Kochhar	AD_VP	17000	100	90
102	Dehaan	AD_VP	17000	100	90
103	Whalen	IT_PROG	9000	102	60
104	Bell	IT_PROG	6000	103	60
105	Abel	SA_REP	4800	103	60
106	Tucker	SA_REP	4800	103	60
107	Baer	IT_PROG	4200	101	60
108	Fox	AC_ACCOUNT	12000	108	100
109	Ozer	ST_MAN	9200	108	10
110	Tom	ST_MAN	8200	108	20
111	Bloom	AC_ACCOUNT	7700	108	10
112	Kim	IT_PROG	7800	100	30
113	Jung	SA_REP	6900	101	40
114	Park	SA_REP	11000	110	40
115	Grant	ST_MAN	3100	107	50
116	Fay	ST_MAN	4400	107	50
117	Ernst	ST_MAN	13000	107	50
118	Davies	AC_ACCOUNT	6500	110	70
119	Matos	AC_ACCOUNT	8300	112	80
120	Taylor	ST_MAN	21000	111	80
121	Lorentz	IT_PROG	20000	112	110
122	Rajs	IT_PROG	19000	100	110
123	Vargas	AC_ACCOUNT	6500	103	70

<작업 순서>

1. 1위에서 20위 추출
2. 10위에서 20위 추출
3. 부서 테이블과 조인

1. 최상위 소득자 순으로 정렬했을때 1위에서 20위에
해당하는 사원들의 employee_id, last_name, salary,
department_id를 출력하시오.

```
select rownum rank, employee_id, last_name,
        salary, department_id
from (select employee_id, last_name,
            salary, department_id
      from employees
      order by salary DESC)
Where rownum <= 20;
```

```
select rownum rank, employee_id, last_name,
        salary, department_id
from (select employee_id, last_name,
            salary, department_id
      from employees
      order by salary DESC)
Where between rownum 10 and 20;
```

rownum	employee_id	last_name	salary	department_id
1	100	King	24000	90
	120	Taylor	21000	80
	121	Lorentz	20000	110
	122	Rajs	19000	110
	101	Kochhar	17000	90
	102	Dehaan	17000	90
	117	Ernst	13000	50
	108	Fox	12000	100
	114	Park	11000	40
	109	Ozer	9200	10
	103	Whalen	9000	60
	124	Chen	8500	70
	119	Matos	8300	80
	110	Tom	8200	20
	112	Kim	7800	30
	111	Bloom	7700	10
	125	Higgins	7500	10
	113	Jung	6900	40
	118	Davies	6500	70
	123	Vargas	6500	70
	104	Bell	6000	60
	105	Abel	4800	60
	106	Tucker	4800	60
	116	Fay	4400	50
	107	Baer	4200	60
	115	Grant	3100	50

2. 최상위 소득자 순으로 정렬했을때 1위에서 20위에 해당하는 사원들 중 10위에서 20위에 해당하는 사원들을 출력하시오.

rank	employee_id	last_name	salary	department_id
1	100	King	24000	90
2	120	Taylor	21000	80
3	121	Lorentz	20000	110
4	122	Rajs	19000	110
5	101	Kochhar	17000	90
6	102	Dehaan	17000	90
7	117	Ernst	13000	50
8	108	Fox	12000	100
9	114	Park	11000	40
10	109	Ozer	9200	10
11	103	Whalen	9000	60
12	124	Chen	8500	70
13	119	Matos	8300	80
14	110	Tom	8200	20
15	112	Kim	7800	30
16	111	Bloom	7700	10
17	125	Higgins	7500	10
18	113	Jung	6900	40
19	118	Davies	6500	70
20	123	Vargas	6500	70

select rank, employee_id, last_name, salary,
        department_id

from (select rownum rank, employee_id, last_name,
            salary, department_id
       from (select employee_id, last_name,
                salary, department_id
            from employees
            order by salary DESC)
       where rownum <= 20)

where rank between 10 and 20;

rank	employee_id	last_name	salary	department_id
10	109	Ozer	9200	10
11	103	Whalen	9000	60
12	124	Chen	8500	70
13	119	Matos	8300	80
14	110	Tom	8200	20
15	112	Kim	7800	30
16	111	Bloom	7700	10
17	125	Higgins	7500	10
18	113	Jung	6900	40
19	118	Davies	6500	70
20	123	Vargas	6500	70

3. 10위에서 20위에 해당하는 사원들을 Departments 테이블과 조인하시오.

[10위에서 20위 사원 정보 Inlineview] => **a** (table alias)   [Departments] => **b** (table alias)

rank	employee_id	last_name	salary	department_id
10	109	Ozer	9200	10
11	103	Whalen	9000	60
12	124	Chen	8500	70
13	119	Matos	8300	80
14	110	Tom	8200	20
15	112	Kim	7800	30
16	111	Bloom	7700	10
17	125	Higgins	7500	10
18	113	Jung	6900	40
19	118	Davies	6500	70
20	123	Vargas	6500	70

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

select a.rank, a.employee_id, a.last_name, a.salary, a.department_id, b.department_name

from (select rownum rank, employee_id, last_name, salary, department_id

    from (select employee_id, last_name, salary, department_id

       from employees

       order by salary DESC)

    where rownum <= 20) a join departments b

on (a.department_id=b.department_id)

where a.rank between 10 and 20;