EJERCICIO SEMANA 10

Alumnos:

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1.- Reconstruir el diseño de la BD en Draw.io u otro

a. Considere el tipo de variable

2.- Interpretación de las relaciones entre las tablas

- En una región (regions) puede haber muchos países (countries) y un país (countries) pertenece solo a una región (regions)
- En un país(countries) puede haber varias locaciones(location) y una locación(location) pertenece solo a un país(countries)
- Una locación(location) puede tener varios departamentos(departments) y un departamento(departments) pertenece solo a una locación(location).
- En un departamento(departments) pueden trabajar varios empleados(employees) y un empleado(employees) no puede trabajar en varios departamentos(departments).

3.- Hacer un listado de cada tabla

REGIONS:

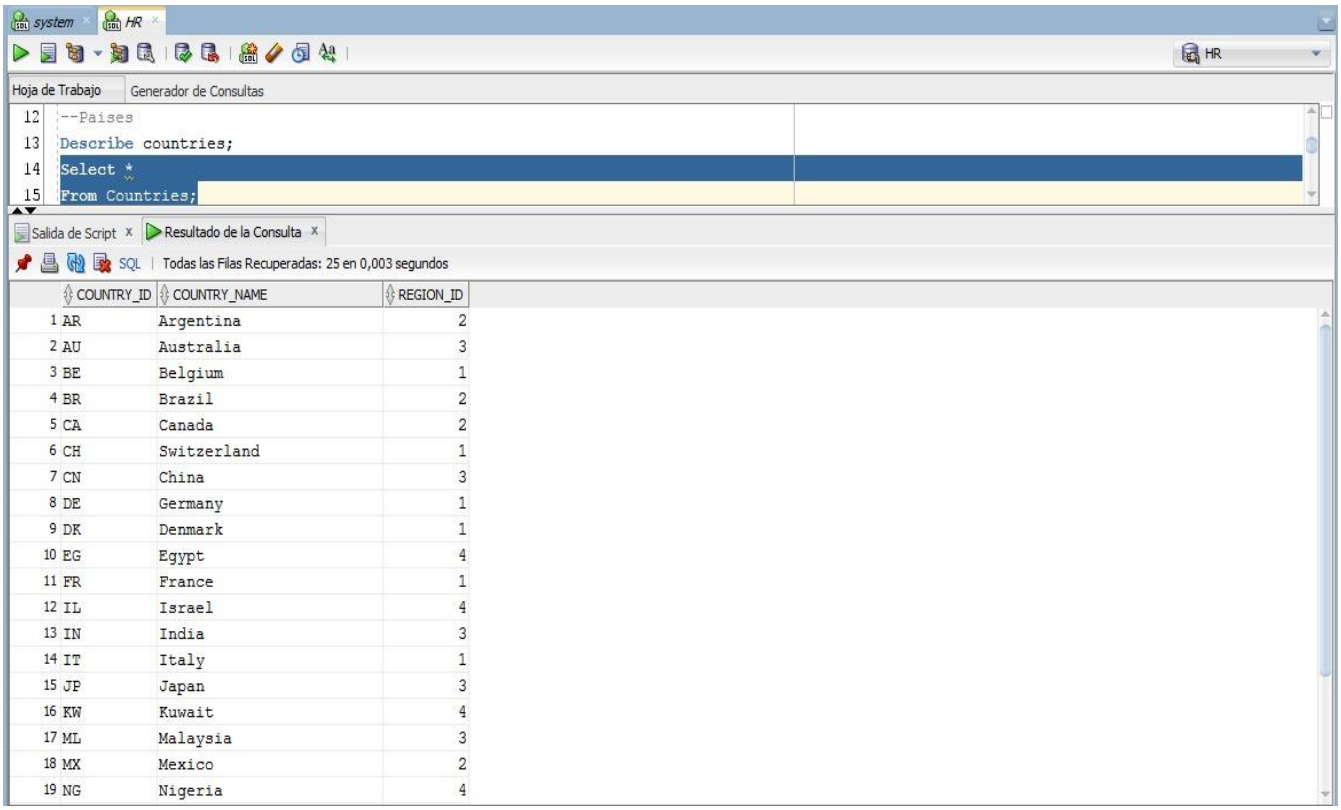
```
--Regions
describe Regions;
Select *
From REGIONS;
```

Salida de Script | Resultado de la Consulta

SQL | Todas las Filas Recuperadas: 4 en 0,008 segundos

	REGION_ID	REGION_NAME
1	1	Europe
2	2	Americas
3	3	Asia
4	4	Middle East and Africa

COUNTRIES:



	COUNTRY_ID	COUNTRY_NAME	REGION_ID
1	AR	Argentina	2
2	AU	Australia	3
3	BE	Belgium	1
4	BR	Brazil	2
5	CA	Canada	2
6	CH	Switzerland	1
7	CN	China	3
8	DE	Germany	1
9	DK	Denmark	1
10	EG	Egypt	4
11	FR	France	1
12	IL	Israel	4
13	IN	India	3
14	IT	Italy	1
15	JP	Japan	3
16	KW	Kuwait	4
17	ML	Malaysia	3
18	MX	Mexico	2
19	NG	Nigeria	4
20	NL	Netherlands	1
21	SG	Singapore	3
22	UK	United Kingdom	1
23	US	United States of America	2
24	ZM	Zambia	4
25	ZW	Zimbabwe	4

DEPARTMENTS:

```
--Departments
Describe departments;
Select *
From DEPARTMENTS;
```

Salida de Script | Resultado de la Consulta

Todas las Filas Recuperadas: 27 en 0,058 segundos

	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10	Administration	200	1700
2	20	Marketing	201	1800
3	30	Purchasing	114	1700
4	40	Human Resources	203	2400
5	50	Shipping	121	1500
6	60	IT	103	1400
7	70	Public Relations	204	2700
8	80	Sales	145	2500
9	90	Executive	100	1700
10	100	Finance	108	1700
11	110	Accounting	205	1700
12	120	Treasury	(null)	1700
13	130	Corporate Tax	(null)	1700
14	140	Control And Credit	(null)	1700
15	150	Shareholder Services	(null)	1700
16	160	Benefits	(null)	1700
17	170	Manufacturing	(null)	1700
18	180	Construction	(null)	1700
19	190	Contracting	(null)	1700
20	200	Operations	(null)	1700
21	210	IT Support	(null)	1700
22	220	NOC	(null)	1700
23	230	IT Helpdesk	(null)	1700
24	240	Government Sales	(null)	1700
25	250	Retail Sales	(null)	1700
26	260	Recruiting	(null)	1700
27	270	Payroll	(null)	1700

EMPLOYEES:

system | HR

Hoja de Trabajo | Generador de Consultas

```
--Employees
Describe EMPLOYEES;
Select *
From EMPLOYEES;
```

Salida de Script | Resultado de la Consulta

SQL | Se han recuperado 50 filas en 0,043 segundos

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	100	Steven	King	SKING	515.123.4567	17/06/03	AD_PRES	24000	(null)	(null)	90
2	101	Neena	Kochhar	NKOCHHAR	515.123.4568	21/09/05	AD_VP	17000	(null)	100	90
3	102	Lex	De Haan	LDEHAAN	515.123.4569	13/01/01	AD_VP	17000	(null)	100	90
4	103	Alexander	Hunold	AHUNOLD	590.423.4567	03/01/06	IT_PROG	9000	(null)	102	60
5	104	Bruce	Ernst	BERNST	590.423.4568	21/05/07	IT_PROG	6000	(null)	103	60
6	105	David	Austin	DAUSTIN	590.423.4569	25/06/05	IT_PROG	4800	(null)	103	60
7	106	Valli	Pataballa	VPATABAL	590.423.4560	05/02/06	IT_PROG	4800	(null)	103	60
8	107	Diana	Lorentz	DLORENTZ	590.423.5567	07/02/07	IT_PROG	4200	(null)	103	60
9	108	Nancy	Greenberg	NGREENBE	515.124.4569	17/08/02	FI_MGR	12008	(null)	101	100
10	109	Daniel	Faviet	DFAVIET	515.124.4169	16/08/02	FI_ACCOUNT	9000	(null)	108	100
11	110	John	Chen	JCHEN	515.124.4269	28/09/05	FI_ACCOUNT	8200	(null)	108	100
12	111	Ismael	Sciarra	ISCIARRA	515.124.4369	30/09/05	FI_ACCOUNT	7700	(null)	108	100
13	112	Jose Manuel	Urman	JMURMAN	515.124.4469	07/03/06	FI_ACCOUNT	7800	(null)	108	100
14	113	Luis	Popp	LPOPP	515.124.4567	07/12/07	FI_ACCOUNT	6900	(null)	108	100
15	114	Den	Raphaely	DRAPHEAL	515.127.4561	07/12/02	PU_MAN	11000	(null)	100	30
16	115	Alexander	Khoo	AKHOO	515.127.4562	18/05/03	PU_CLERK	3100	(null)	114	30
17	116	Shelli	Baida	SBAIDA	515.127.4563	24/12/05	PU_CLERK	2900	(null)	114	30
18	117	Sigal	Tobias	STOBIAS	515.127.4564	24/07/05	PU_CLERK	2800	(null)	114	30
19	118	Guy	Himuro	GHIMURO	515.127.4565	15/11/06	PU_CLERK	2600	(null)	114	30
20	119	Karen	Colmenares	KCOLMENA	515.127.4566	10/08/07	PU_CLERK	2500	(null)	114	30
21	120	Matthew	Weiss	MWEISS	650.123.1234	18/07/04	ST_MAN	8000	(null)	100	50
22	121	Adam	Fripp	AFRIPP	650.123.2234	10/04/05	ST_MAN	8200	(null)	100	50
23	122	Payam	Kaufling	PKAUFLIN	650.123.3234	01/05/03	ST_MAN	7900	(null)	100	50
24	123	Shanta	Vollman	SVOLLMAN	650.123.4234	10/10/05	ST_MAN	6500	(null)	100	50
25	124	Kevin	Mourgos	KMOURGOS	650.123.5234	16/11/07	ST_MAN	5800	(null)	100	50
26	125	Julia	Nayer	JNAYER	650.124.1214	16/07/05	ST_CLERK	3200	(null)	120	50
27	126	Irene	Mikkilineni	IMIKKILI	650.124.1224	28/09/06	ST_CLERK	2700	(null)	120	50
28	127	James	Landry	JLANDRY	650.124.1334	14/01/07	ST_CLERK	2400	(null)	120	50
29	128	Steven	Markle	SMARKLE	650.124.1434	08/03/08	ST_CLERK	2200	(null)	120	50
30	129	Laura	Bissot	LBISSOT	650.124.5234	20/08/05	ST_CLERK	3300	(null)	121	50
31	130	Mozhe	Atkinson	MATKINSO	650.124.6234	30/10/05	ST_CLERK	2800	(null)	121	50
32	131	James	Marlow	JAMRLOW	650.124.7234	16/02/05	ST_CLERK	2500	(null)	121	50
33	132	TJ	Olson	TJOLSON	650.124.8234	10/04/07	ST_CLERK	2100	(null)	121	50

34	133	Jason	Mallin	JMALLIN	650.127.1934	14/06/04	ST_CLERK	3300	(null)	122	50
35	134	Michael	Rogers	MROGERS	650.127.1834	26/08/06	ST_CLERK	2900	(null)	122	50
36	135	Ki	Gee	KGEE	650.127.1734	12/12/07	ST_CLERK	2400	(null)	122	50
37	136	Hazel	Philtanker	HPHILTAN	650.127.1634	06/02/08	ST_CLERK	2200	(null)	122	50
38	137	Renske	Ladwig	RLADWIG	650.121.1234	14/07/03	ST_CLERK	3600	(null)	123	50
39	138	Stephen	Stiles	SSTILES	650.121.2034	26/10/05	ST_CLERK	3200	(null)	123	50
40	139	John	Seo	JSEO	650.121.2019	12/02/06	ST_CLERK	2700	(null)	123	50
41	140	Joshua	Patel	JPATEL	650.121.1834	06/04/06	ST_CLERK	2500	(null)	123	50
42	141	Trenna	Rajs	TRAJS	650.121.8009	17/10/03	ST_CLERK	3500	(null)	124	50
43	142	Curtis	Davies	CDAVIES	650.121.2994	29/01/05	ST_CLERK	3100	(null)	124	50
44	143	Randall	Matos	RMATOS	650.121.2874	15/03/06	ST_CLERK	2600	(null)	124	50
45	144	Peter	Vargas	PVARGAS	650.121.2004	09/07/06	ST_CLERK	2500	(null)	124	50
46	145	John	Russell	JRUSSEL	011.44.1344.429268	01/10/04	SA_MAN	14000	0,4	100	80
47	146	Karen	Partners	KPARTNER	011.44.1344.467268	05/01/05	SA_MAN	13500	0,3	100	80
48	147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	10/03/05	SA_MAN	12000	0,3	100	80
49	148	Gerald	Cambrault	GCAMBRAU	011.44.1344.619268	15/10/07	SA_MAN	11000	0,3	100	80
50	149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	29/01/08	SA_MAN	10500	0,2	100	80
51	150	Peter	Tucker	PTUCKER	011.44.1344.129268	30/01/05	SA_REP	10000	0,3	145	80
52	151	David	Bernstein	DBERNSTE	011.44.1344.345268	24/03/05	SA_REP	9500	0,25	145	80
53	152	Peter	Hall	PHALL	011.44.1344.478968	20/08/05	SA_REP	9000	0,25	145	80
54	153	Christopher	Olsen	COLSEN	011.44.1344.498718	30/03/06	SA_REP	8000	0,2	145	80
55	154	Nanette	Cambrault	NCAMBRAU	011.44.1344.987668	09/12/06	SA_REP	7500	0,2	145	80
56	155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	23/11/07	SA_REP	7000	0,15	145	80
57	156	Janette	King	JKING	011.44.1345.429268	30/01/04	SA_REP	10000	0,35	146	80
58	157	Patrick	Sully	PSULLY	011.44.1345.929268	04/03/04	SA_REP	9500	0,35	146	80
59	158	Allan	McEwen	AMCEWEN	011.44.1345.829268	01/08/04	SA_REP	9000	0,35	146	80
60	159	Lindsey	Smith	LSMITH	011.44.1345.729268	10/03/05	SA_REP	8000	0,3	146	80
61	160	Louise	Doran	LDORAN	011.44.1345.629268	15/12/05	SA_REP	7500	0,3	146	80
62	161	Sarath	Sewall	SSEWALL	011.44.1345.529268	03/11/06	SA_REP	7000	0,25	146	80
63	162	Clara	Vishney	CVISHNEY	011.44.1346.129268	11/11/05	SA_REP	10500	0,25	147	80
64	163	Danielle	Greene	DGREENE	011.44.1346.229268	19/03/07	SA_REP	9500	0,15	147	80
65	164	Mattea	Marvins	MMARVINS	011.44.1346.329268	24/01/08	SA_REP	7200	0,1	147	80
66	165	David	Lee	DLEE	011.44.1346.529268	23/02/08	SA_REP	6800	0,1	147	80
67	166	Sundar	Ande	SANDE	011.44.1346.629268	24/03/08	SA_REP	6400	0,1	147	80
68	167	Amit	Banda	ABANDA	011.44.1346.729268	21/04/08	SA_REP	6200	0,1	147	80
69	168	Lisa	Ozer	LOZER	011.44.1343.929268	11/03/05	SA_REP	11500	0,25	148	80
70	169	Harrison	Bloom	HBLOOM	011.44.1343.829268	23/03/06	SA_REP	10000	0,2	148	80
71	170	Tayler	Fox	TFOX	011.44.1343.729268	24/01/06	SA_REP	9600	0,2	148	80
72	171	William	Smith	WSMITH	011.44.1343.629268	23/02/07	SA_REP	7400	0,15	148	80
73	172	Elizabeth	Bates	EBATES	011.44.1343.529268	24/03/07	SA_REP	7300	0,15	148	80
74	173	Sundita	Kumar	SKUMAR	011.44.1343.329268	21/04/08	SA_REP	6100	0,1	148	80
75	174	Ellen	Abel	EABEL	011.44.1644.429267	11/05/04	SA_REP	11000	0,3	149	80
76	175	Alyssa	Hutton	AHUTTON	011.44.1644.429266	19/03/05	SA_REP	8800	0,25	149	80
77	176	Jonathon	Taylor	JTAYLOR	011.44.1644.429265	24/03/06	SA_REP	8600	0,2	149	80
78	177	Jack	Livingston	JLIVINGS	011.44.1644.429264	23/04/06	SA_REP	8400	0,2	149	80
79	178	Kimberely	Grant	KGRANT	011.44.1644.429263	24/05/07	SA_REP	7000	0,15	149	(null)
80	179	Charles	Johnson	CJOHNSON	011.44.1644.429262	04/01/08	SA_REP	6200	0,1	149	80
81	180	Winston	Taylor	WTAYLOR	650.507.9876	24/01/06	SH_CLERK	3200	(null)	120	50
82	181	Jean	Fleaur	JFLEAUR	650.507.9877	23/02/06	SH_CLERK	3100	(null)	120	50
83	182	Martha	Sullivan	MSULLIVA	650.507.9878	21/06/07	SH_CLERK	2500	(null)	120	50
84	183	Girard	Geoni	GGEONI	650.507.9879	03/02/08	SH_CLERK	2800	(null)	120	50
85	184	Nandita	Sarchand	NSARCHAN	650.509.1876	27/01/04	SH_CLERK	4200	(null)	121	50
86	185	Alexis	Bull	ABULL	650.509.2876	20/02/05	SH_CLERK	4100	(null)	121	50
87	186	Julia	Dellinger	JDELLING	650.509.3876	24/06/06	SH_CLERK	3400	(null)	121	50

88	187	Anthony	Cabrio	ACABRIO	650.509.4876	07/02/07	SH_CLERK	3000	(null)	121	50
89	188	Kelly	Chung	KCHUNG	650.505.1876	14/06/05	SH_CLERK	3800	(null)	122	50
90	189	Jennifer	Dilly	JDILLY	650.505.2876	13/08/05	SH_CLERK	3600	(null)	122	50
91	190	Timothy	Gates	TGATES	650.505.3876	11/07/06	SH_CLERK	2900	(null)	122	50
92	191	Randall	Perkins	RPERKINS	650.505.4876	19/12/07	SH_CLERK	2500	(null)	122	50
93	192	Sarah	Bell	SBELL	650.501.1876	04/02/04	SH_CLERK	4000	(null)	123	50
94	193	Britney	Everett	BEVERETT	650.501.2876	03/03/05	SH_CLERK	3900	(null)	123	50
95	194	Samuel	McCain	SMCCAIN	650.501.3876	01/07/06	SH_CLERK	3200	(null)	123	50
96	195	Vance	Jones	VJONES	650.501.4876	17/03/07	SH_CLERK	2800	(null)	123	50
97	196	Alana	Walsh	AWALSH	650.507.9811	24/04/06	SH_CLERK	3100	(null)	124	50
98	197	Kevin	Feeney	KFEENEY	650.507.9822	23/05/06	SH_CLERK	3000	(null)	124	50
99	198	Donald	OConnell	DOCONNEL	650.507.9833	21/06/07	SH_CLERK	2600	(null)	124	50
100	199	Douglas	Grant	DGRANT	650.507.9844	13/01/08	SH_CLERK	2600	(null)	124	50
101	200	Jennifer	Whalen	JWHALEN	515.123.4444	17/09/03	AD_ASST	4400	(null)	101	10
102	201	Michael	Hartstein	MHARTSTE	515.123.5555	17/02/04	MK_MAN	13000	(null)	100	20
103	202	Pat	Fay	PFAY	603.123.6666	17/08/05	MK_REP	6000	(null)	201	20
104	203	Susan	Mavris	SMAVRIS	515.123.7777	07/06/02	HR_REP	6500	(null)	101	40
105	204	Hermann	Baer	HBAER	515.123.8888	07/06/02	PR_REP	10000	(null)	101	70
106	205	Shelley	Higgins	SHIGGINS	515.123.8080	07/06/02	AC_MGR	12008	(null)	101	110
107	206	William	Gietz	WGIETZ	515.123.8181	07/06/02	AC_ACCOUNT	8300	(null)	205	110

JOBS:

system HR

Hoja de Trabajo | Generador de Consultas

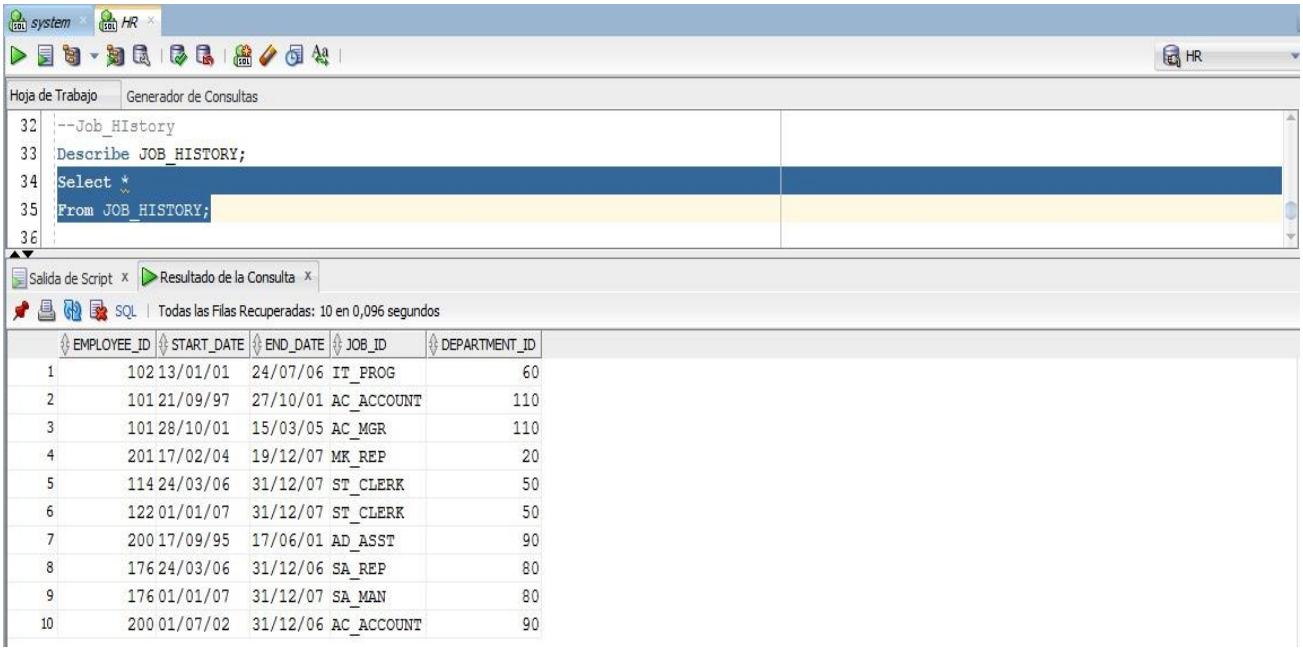
```
--Jobs
Describe jobs;
Select *
From jobs;
```

Salida de Script | Resultado de la Consulta

SQL | Todas las Filas Recuperadas: 19 en 0,02 segundos

	JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
1	AD_PRES	President	20080	40000
2	AD_VP	Administration Vice President	15000	30000
3	AD_ASST	Administration Assistant	3000	6000
4	FI_MGR	Finance Manager	8200	16000
5	FI_ACCOUNT	Accountant	4200	9000
6	AC_MGR	Accounting Manager	8200	16000
7	AC_ACCOUNT	Public Accountant	4200	9000
8	SA_MAN	Sales Manager	10000	20080
9	SA_REP	Sales Representative	6000	12008
10	PU_MAN	Purchasing Manager	8000	15000
11	PU_CLERK	Purchasing Clerk	2500	5500
12	ST_MAN	Stock Manager	5500	8500
13	ST_CLERK	Stock Clerk	2008	5000
14	SH_CLERK	Shipping Clerk	2500	5500
15	IT_PROG	Programmer	4000	10000
16	MK_MAN	Marketing Manager	9000	15000
17	MK_REP	Marketing Representative	4000	9000
18	HR_REP	Human Resources Representative	4000	9000
19	PR_REP	Public Relations Representative	4500	10500

JOBS_HISTORY:



```
--Job_HIstory
Describe JOB_HISTORY;
Select *
From JOB_HISTORY;
```

Todas las Filas Recuperadas: 10 en 0,096 segundos

	EMPLOYEE_ID	START_DATE	END_DATE	JOB_ID	DEPARTMENT_ID
1	102	13/01/01	24/07/06	IT_PROG	60
2	101	21/09/97	27/10/01	AC_ACCOUNT	110
3	101	28/10/01	15/03/05	AC_MGR	110
4	201	17/02/04	19/12/07	MK_REP	20
5	114	24/03/06	31/12/07	ST_CLERK	50
6	122	01/01/07	31/12/07	ST_CLERK	50
7	200	17/09/95	17/06/01	AD_ASST	90
8	176	24/03/06	31/12/06	SA_REP	80
9	176	01/01/07	31/12/07	SA_MAN	80
10	200	01/07/02	31/12/06	AC_ACCOUNT	90

LOCATIONS:

```
--Locations
Describe LOCATIONS;
Select *
From LOCATIONS;
```

Todas las Filas Recuperadas: 23 en 0,063 segundos

	LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_PROVINCE	COUNTRY_ID
1	1000	1297 Via Cola di Rie	00989	Roma	(null)	IT
2	1100	93091 Calle della Testa	10934	Venice	(null)	IT
3	1200	2017 Shinjuku-ku	1689	Tokyo	Tokyo Prefecture	JP
4	1300	9450 Kamiya-cho	6823	Hiroshima	(null)	JP
5	1400	2014 Jabberwocky Rd	26192	Southlake	Texas	US
6	1500	2011 Interiors Blvd	99236	South San Francisco	California	US
7	1600	2007 Zagora St	50090	South Brunswick	New Jersey	US
8	1700	2004 Charade Rd	98199	Seattle	Washington	US
9	1800	147 Spadina Ave	M5V 2L7	Toronto	Ontario	CA
10	1900	6092 Boxwood St	YSW 9T2	Whitehorse	Yukon	CA
11	2000	40-5-12 Laogianggen	190518	Beijing	(null)	CN
12	2100	1298 Vileparle (E)	490231	Bombay	Maharashtra	IN
13	2200	12-98 Victoria Street	2901	Sydney	New South Wales	AU
14	2300	198 Clementi North	540198	Singapore	(null)	SG
15	2400	8204 Arthur St	(null)	London	(null)	UK
16	2500	Magdalen Centre, The Oxford Science Park	OX9 9ZB	Oxford	Oxford	UK
17	2600	9702 Chester Road	09629850293	Stretford	Manchester	UK
18	2700	Schwanthalerstr. 7031	80925	Munich	Bavaria	DE
19	2800	Rua Frei Caneca 1360	01307-002	Sao Paulo	Sao Paulo	BR
20	2900	20 Rue des Corps-Saints	1730	Geneva	Geneve	CH
21	3000	Murtenstrasse 921	3095	Bern	BE	CH
22	3100	Pieter Breughelstraat 837	3029SK	Utrecht	Utrecht	NL
23	3200	Mariano Escobedo 9991	11932	Mexico City	Distrito Federal,	MX