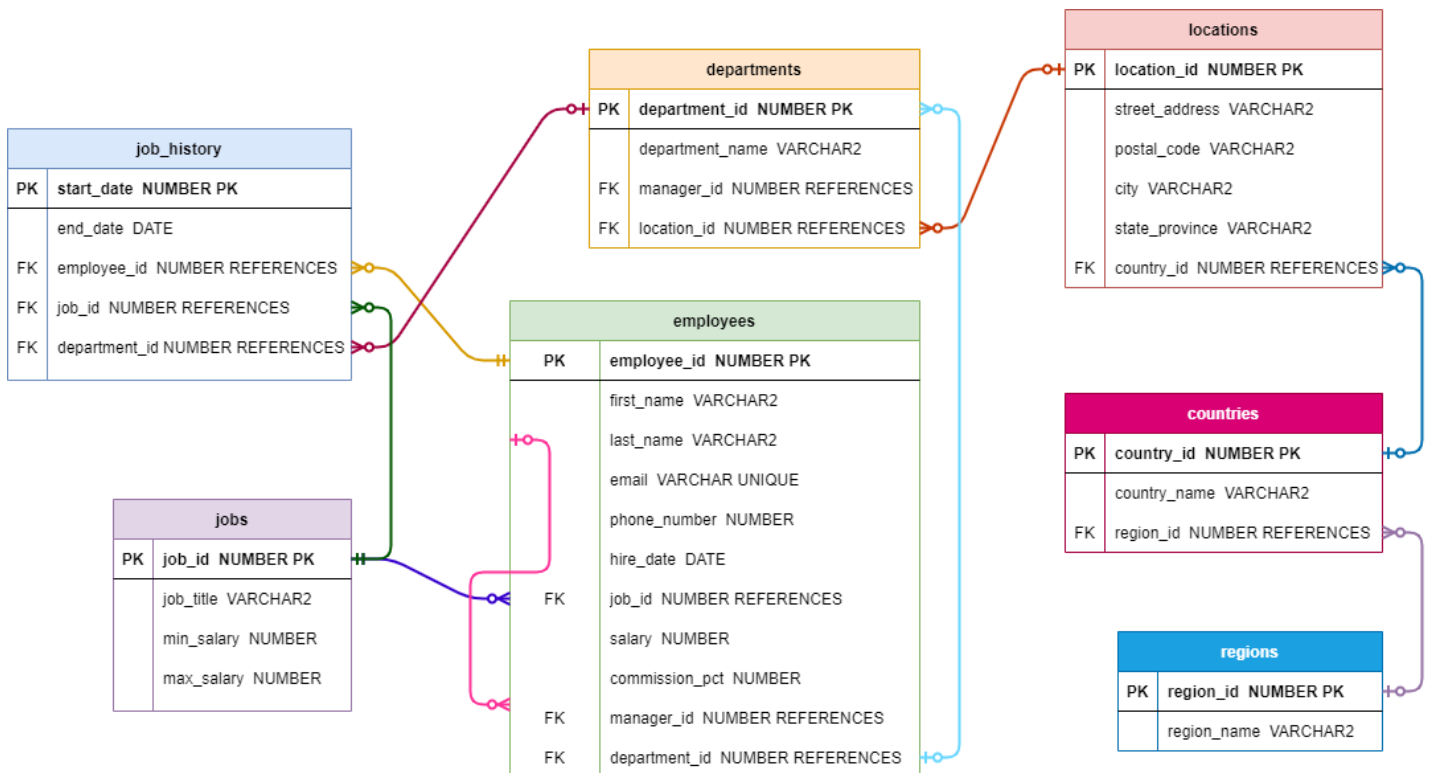


## Ejercicio

Integrantes:

- Accostupa Quispe Lucero
  - Cinthya Maryluz Jurado Leon
  - Hinostroza Cardenas Melanie
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:

Ejemplo:

- a. En una región (regions) puede haber muchos países (countries) y un país (countries) pertenece solo a una región (regions)

Interpretación:

- a. En un departamento (departments) puede haber muchas historiales laborales (job\_history) y en cada historial laboral (job\_history) puede pertenecer a un departamento (departments).
- b. En un trabajo (jobs) puede haber muchos historiales laborales (job\_history), y cada historial laboral (job\_history) pertenece a uno y solo un trabajo (jobs).
- c. En un país (countries) pueden haber muchas ubicaciones (locations), y una ubicación (locations) pertenece solo a una ubicación (countries).

- d. En un trabajo(jobs) pueden laborar muchos trabajadores(employees) y un trabajador(employees) pertenece a uno y solo un trabajo(jobs).
- e. En un departamento(departments) puede tener muchas ubicaciones(locations), y una ubicación (locations) pertenece solo a un departamento(departments).
- f. En una región (regions) puede haber muchos países (countries) y un país (countries) pertenece solo a una región (regions).
- g. En un empleado(employees) puede tener muchos historiales laborales(job\_history), y un historial laboral(job\_history) está dada por uno y solo un empleado(employees).
- h. En un empleado(employees) puede estar en muchos departamentos(departments), y un departamento(departments) pertenece solo a un empleado(employees).
- i. En un gerente(manager) puede supervisar muchos empleados(employees), y un empleado(employees) pertenece solo a un gerente(manager).

### 3. Hacer un listado de cada tabla.

```
select *
from tab;
```

TNAME	TABTYPE	
COUNTRIES	TABLE	(NULL)
DEPARTMENTS	TABLE	(NULL)
EMPLOYEES	TABLE	(NULL)
EMP_DETAILS_VIEW	VIEW	(NULL)
JOBS	TABLE	(NULL)
JOB_HISTORY	TABLE	(NULL)
LOCATIONS	TABLE	(NULL)
REGIONS	TABLE	(NULL)

-----TABLA REGION-----

```
select *
from regions;
```

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

-----TABLA COUNTRIES-----

```
select *
from countries;
```

CO	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

CO	COUNTRY_NAME	REGION_ID
-----		
IL	Israel	4
IN	India	3
IT	Italy	1
JP	Japan	3
KW	Kuwait	4
ML	Malaysia	3
MX	Mexico	2
NG	Nigeria	4
NL	Netherlands	1
SG	Singapore	3
UK	United Kingdom	1

CO	COUNTRY_NAME	REGION_ID
-----		
US	United States of America	2
ZM	Zambia	4
ZW	Zimbabwe	4

-----TABLA LOCATIONS-----

select \*

from LOCATIONS;

LOCATION_ID	STREET_ADDRESS	POSTAL_CODE	CITY	STATE_PROVINCE	CO
-----					
1000	1297 Via Cola di Rie	00989	Roma		IT
1100	93091 Calle della Testa	10934	Venice		IT
1200	2017 Shinjuku-ku	1689	Tokyo	Tokyo Prefecture	JP
1300	9450 Kamiya-cho	6823	Hiroshima		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		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		SG
2400	8204 Arthur St		London		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

-----TABLA DEPARTMENTS-----

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	1700	
130	Corporate Tax	1700	
140	Control And Credit	1700	
150	Shareholder Services	1700	
160	Benefits	1700	
170	Manufacturing	1700	
180	Construction	1700	
190	Contracting	1700	
200	Operations	1700	
210	IT Support	1700	
220	NOC	1700	

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
---------------	-----------------	------------	-------------

230	IT Helpdesk	1700
240	Government Sales	1700
250	Retail Sales	1700
260	Recruiting	1700
270	Payroll	1700

#### -----TABLA JOBS-----

```
select *
from 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
SA_REP	Sales Representative	6000	12008
PU_MAN	Purchasing Manager	8000	15000
PU_CLERK	Purchasing Clerk	2500	5500

JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
--------	-----------	------------	------------

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

#### -----TABLA JOB\_HISTORY-----

```
select *
from JOB_HISTORY;
```

EMPLOYEE_ID	START_DA	END_DATE	JOB_ID	DEPARTMENT_ID
-------------	----------	----------	--------	---------------

102	13/01/01	24/07/06	IT_PROG	60
-----	----------	----------	---------	----

```

101 21/09/97 27/10/01 AC_ACCOUNT      110
101 28/10/01 15/03/05 AC_MGR          110
201 17/02/04 19/12/07 MK_REP           20
114 24/03/06 31/12/07 ST_CLERK        50
122 01/01/07 31/12/07 ST_CLERK        50
200 17/09/95 17/06/01 AD_ASST          90
176 24/03/06 31/12/06 SA_REP           80
176 01/01/07 31/12/07 SA_MAN           80
200 01/07/02 31/12/06 AC_ACCOUNT      90

```

-----TABLA EMPLOYEES-----

```

select *
from EMPLOYEES;

```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	17/06/03	AD_PRES	24000			90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	21/09/05	AD_VP	17000	100		90
102	Lex	De Haan	LDEHAAN	515.123.4569	13/01/01	AD_VP	17000	100		90
103	Alexander	Hunold	AHUNOLD	590.423.4567	03/01/06	IT_PROG	9000	102		60
104	Bruce	Ernst	BERNST	590.423.4568	21/05/07	IT_PROG	6000	103		60
105	David	Austin	DAUSTIN	590.423.4569	25/06/05	IT_PROG	4800	103		60
106	Valli	Pataballa	VPATABAL	590.423.4560	05/02/06	IT_PROG	4800	103		60
107	Diana	Lorentz	DLORENTZ	590.423.5567	07/02/07	IT_PROG	4200	103		60
108	Nancy	Greenberg	NGREENBE	515.124.4569	17/08/02	FI_MGR	12008	101		100
109	Daniel	Faviet	DFAVIET	515.124.4169	16/08/02	FI_ACCOUNT	9000	108		100
110	John	Chen	JCHEN	515.124.4269	28/09/05	FI_ACCOUNT	8200	108		100

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
111	Ismael	Sciarra	ISCIARRA	515.124.4369	30/09/05	FI_ACCOUNT	7700	108		100
112	Jose Manuel	Urman	JMURMAN	515.124.4469	07/03/06	FI_ACCOUNT	7800	108		100
113	Luis	Popp	LPOPP	515.124.4567	07/12/07	FI_ACCOUNT	6900	108		100
114	Den	Raphaely	DRAPHEAL	515.127.4561	07/12/02	PU_MAN	11000	100		30
115	Alexander	Khoo	AKHOO	515.127.4562	18/05/03	PU_CLERK	3100	114		30
116	Shelli	Baida	SBAIDA	515.127.4563	24/12/05	PU_CLERK	2900	114		30
117	Sigal	Tobias	STOBIAS	515.127.4564	24/07/05	PU_CLERK	2800	114		30
118	Guy	Himuro	GHIMURO	515.127.4565	15/11/06	PU_CLERK	2600	114		30
119	Karen	Colmenares	KCOLMENA	515.127.4566	10/08/07	PU_CLERK	2500	114		30
120	Matthew	Weiss	MWEISS	650.123.1234	18/07/04	ST_MAN	8000	100		50
121	Adam	Fripp	AFRIPP	650.123.2234	10/04/05	ST_MAN	8200	100		50

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
122	Payam	Kaufling	PKAUFLIN	650.123.3234	01/05/03	ST_MAN	7900	100		50
123	Shanta	Vollman	SVOLLMAN	650.123.4234	10/10/05	ST_MAN	6500	100		50
124	Kevin	Mourgos	KMOURGOS	650.123.5234	16/11/07	ST_MAN	5800	100		50
125	Julia	Nayer	JNAYER	650.124.1214	16/07/05	ST_CLERK	3200	120		50
126	Irene	Mikkilineni	IMIKKILI	650.124.1224	28/09/06	ST_CLERK	2700	120		50
127	James	Landry	JLANDRY	650.124.1334	14/01/07	ST_CLERK	2400	120		50
128	Steven	Markle	SMARKLE	650.124.1434	08/03/08	ST_CLERK	2200	120		50
129	Laura	Bissot	LBISSOT	650.124.5234	20/08/05	ST_CLERK	3300	121		50
130	Mozhe	Atkinson	MATKINSO	650.124.6234	30/10/05	ST_CLERK	2800	121		50
131	James	Marlow	JAMRLOW	650.124.7234	16/02/05	ST_CLERK	2500	121		50
132	TJ	Olson	TJOLSON	650.124.8234	10/04/07	ST_CLERK	2100	121		50

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
133	Jason	Mallin	JMALLIN	650.127.1934	14/06/04	ST_CLERK	3300	122		50
134	Michael	Rogers	MROGERS	650.127.1834	26/08/06	ST_CLERK	2900	122		50
135	Ki	Gee	KGEE	650.127.1734	12/12/07	ST_CLERK	2400	122		50
136	Hazel	Philtanker	HPHILTAN	650.127.1634	06/02/08	ST_CLERK	2200	122		50
137	Renske	Ladwig	RLADWIG	650.121.1234	14/07/03	ST_CLERK	3600	123		50
138	Stephen	Stiles	SSTILES	650.121.2034	26/10/05	ST_CLERK	3200	123		50
139	John	Seo	JSEO	650.121.2019	12/02/06	ST_CLERK	2700	123		50
140	Joshua	Patel	JPATEL	650.121.1834	06/04/06	ST_CLERK	2500	123		50
141	Trenna	Rajs	TRAJS	650.121.8009	17/10/03	ST_CLERK	3500	124		50
142	Curtis	Davies	CDAVIES	650.121.2994	29/01/05	ST_CLERK	3100	124		50
143	Randall	Matos	RMATOS	650.121.2874	15/03/06	ST_CLERK	2600	124		50

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
144	Peter	Vargas	PVARGAS	650.121.2004	09/07/06	ST_CLERK	2500	124		50
145	John	Russell	JRUSSEL	011.44.1344.429268	01/10/04	SA_MAN	14000,4	100		80
146	Karen	Partners	KPARTNER	011.44.1344.467268	05/01/05	SA_MAN	13500,3	100		80
147	Alberto	Errazuriz	AERRAZUR	011.44.1344.429278	10/03/05	SA_MAN	12000,3	100		80
148	Gerald	Cambraut	GCAMBRAU	011.44.1344.619268	15/10/07	SA_MAN	11000,3	100		80
149	Eleni	Zlotkey	EZLOTKEY	011.44.1344.429018	29/01/08	SA_MAN	10500,2	100		80
150	Peter	Tucker	PTUCKER	011.44.1344.129268	30/01/05	SA_REP	10000,3	145		80
151	David	Bernstein	DBERNSTE	011.44.1344.345268	24/03/05	SA_REP	9500,25	145		80
152	Peter	Hall	PHALL	011.44.1344.478968	20/08/05	SA_REP	9000,25	145		80
153	Christopher	Olsen	COLSEN	011.44.1344.498718	30/03/06	SA_REP	8000,2	145		80
154	Nanette	Cambraut	NCAMBRAU	011.44.1344.987668	09/12/06	SA_REP	7500,2	145		80

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
155	Oliver	Tuvault	OTUVAULT	011.44.1344.486508	23/11/07	SA_REP	7000,15	145		80
156	Janette	King	JKING	011.44.1345.429268	30/01/04	SA_REP	10000,35	146		80
157	Patrick	Sully	PSULLY	011.44.1345.929268	04/03/04	SA_REP	9500,35	146		80
158	Allan	McEwen	AMCEWEN	011.44.1345.829268	01/08/04	SA_REP	9000,35	146		80
159	Lindsey	Smith	LSMITH	011.44.1345.729268	10/03/05	SA_REP	8000,3	146		80
160	Louise	Doran	LDORAN	011.44.1345.629268	15/12/05	SA_REP	7500,3	146		80
161	Sarath	Sewall	SSEWALL	011.44.1345.529268	03/11/06	SA_REP	7000,25	146		80

162 Clara	Vishney	CVISHNEY	011.44.1346.129268	11/11/05 SA_REP	10500 ,25	147	80
163 Danielle	Greene	DGREENE	011.44.1346.229268	19/03/07 SA_REP	9500 ,15	147	80
164 Mattea	Marvins	MMARVINS	011.44.1346.329268	24/01/08 SA_REP	7200 ,1	147	80
165 David	Lee	DLEE	011.44.1346.529268	23/02/08 SA_REP	6800 ,1	147	80

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
166 Sundar	Ande	SANDE	011.44.1346.629268	24/03/08 SA_REP	6400 ,1	147	80			
167 Amit	Banda	ABANDA	011.44.1346.729268	21/04/08 SA_REP	6200 ,1	147	80			
168 Lisa	Ozer	LOZER	011.44.1343.929268	11/03/05 SA_REP	11500 ,25	148	80			
169 Harrison	Bloom	HBLOOM	011.44.1343.829268	23/03/06 SA_REP	10000 ,2	148	80			
170 Tayler	Fox	TFOX	011.44.1343.729268	24/01/06 SA_REP	9600 ,2	148	80			
171 William	Smith	WSMITH	011.44.1343.629268	23/02/07 SA_REP	7400 ,15	148	80			
172 Elizabeth	Bates	EBATES	011.44.1343.529268	24/03/07 SA_REP	7300 ,15	148	80			
173 Sundita	Kumar	SKUMAR	011.44.1343.329268	21/04/08 SA_REP	6100 ,1	148	80			
174 Ellen	Abel	EABEL	011.44.1644.429267	11/05/04 SA_REP	11000 ,3	149	80			
175 Alyssa	Hutton	AHUTTON	011.44.1644.429266	19/03/05 SA_REP	8800 ,25	149	80			
176 Jonathon	Taylor	JTAYLOR	011.44.1644.429265	24/03/06 SA_REP	8600 ,2	149	80			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
177 Jack	Livingston	JLIVINGS	011.44.1644.429264	23/04/06 SA_REP	8400 ,2	149	80			
178 Kimberely	Grant	KGRANT	011.44.1644.429263	24/05/07 SA_REP	7000 ,15	149				
179 Charles	Johnson	CJOHNSON	011.44.1644.429262	04/01/08 SA_REP	6200 ,1	149	80			
180 Winston	Taylor	WTAYLOR	650.507.9876	24/01/06 SH_CLERK	3200	120	50			
181 Jean	Fleaur	JFLEAUR	650.507.9877	23/02/06 SH_CLERK	3100	120	50			
182 Martha	Sullivan	MSULLIVA	650.507.9878	21/06/07 SH_CLERK	2500	120	50			
183 Girard	Geoni	GGEONI	650.507.9879	03/02/08 SH_CLERK	2800	120	50			
184 Nandita	Sarchand	NSARCHAN	650.509.1876	27/01/04 SH_CLERK	4200	121	50			
185 Alexis	Bull	ABULL	650.509.2876	20/02/05 SH_CLERK	4100	121	50			
186 Julia	Dellinger	JDELLING	650.509.3876	24/06/06 SH_CLERK	3400	121	50			
187 Anthony	Cabrio	ACABRIO	650.509.4876	07/02/07 SH_CLERK	3000	121	50			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
188 Kelly	Chung	KCHUNG	650.505.1876	14/06/05 SH_CLERK	3800	122	50			
189 Jennifer	Dilly	JDILLY	650.505.2876	13/08/05 SH_CLERK	3600	122	50			
190 Timothy	Gates	TGATES	650.505.3876	11/07/06 SH_CLERK	2900	122	50			
191 Randall	Perkins	RPERKINS	650.505.4876	19/12/07 SH_CLERK	2500	122	50			
192 Sarah	Bell	SBELL	650.501.1876	04/02/04 SH_CLERK	4000	123	50			
193 Britney	Everett	BEVERETT	650.501.2876	03/03/05 SH_CLERK	3900	123	50			
194 Samuel	McCaIn	SMCCAIN	650.501.3876	01/07/06 SH_CLERK	3200	123	50			
195 Vance	Jones	VJONES	650.501.4876	17/03/07 SH_CLERK	2800	123	50			
196 Alana	Walsh	AWALSH	650.507.9811	24/04/06 SH_CLERK	3100	124	50			
197 Kevin	Feeney	KFEENEY	650.507.9822	23/05/06 SH_CLERK	3000	124	50			
198 Donald	OConnell	DOCONNEL	650.507.9833	21/06/07 SH_CLERK	2600	124	50			

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DAT	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
199 Douglas	Grant	DGRANT	650.507.9844	13/01/08 SH_CLERK	2600	124	50			
200 Jennifer	Whalen	JWHALEN	515.123.4444	17/09/03 AD_ASST	4400	101	10			
201 Michael	Hartstein	MHARTSTE	515.123.5555	17/02/04 MK_MAN	13000	100	20			
202 Pat	Fay	PFAY	603.123.6666	17/08/05 MK_REP	6000	201	20			
203 Susan	Mavris	SMAVRIS	515.123.7777	07/06/02 HR_REP	6500	101	40			
204 Hermann	Baer	HBAER	515.123.8888	07/06/02 PR_REP	10000	101	70			
205 Shelley	Higgins	SHIGGINS	515.123.8080	07/06/02 AC_MGR	12008	101	110			
206 William	Gietz	WGIEZT	515.123.8181	07/06/02 AC_ACCOUNT	8300	205	110			

4. Subir la solución a GitHub.