REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the REGIONS table to hold region information for locations

REM HR.LOCATIONS table has a foreign key to this table.

CREATE TABLE regions

( region\_id NUMBER

CONSTRAINT region\_id\_nn NOT NULL

, region\_name VARCHAR2(25)

);

CREATE UNIQUE INDEX reg\_id\_pk

ON regions (region\_id);

ALTER TABLE regions

ADD ( CONSTRAINT reg\_id\_pk

PRIMARY KEY (region\_id)

) ;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the COUNTRIES table to hold country information for customers

REM and company locations.

REM OE.CUSTOMERS table and HR.LOCATIONS have a foreign key to this table.

CREATE TABLE countries

( country\_id CHAR(2)

CONSTRAINT country\_id\_nn NOT NULL

, country\_name VARCHAR2(40)

, region\_id NUMBER

, CONSTRAINT country\_c\_id\_pk

PRIMARY KEY (country\_id)

)

ORGANIZATION INDEX;

ALTER TABLE countries

ADD ( CONSTRAINT countr\_reg\_fk

FOREIGN KEY (region\_id)

REFERENCES regions(region\_id)

) ;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the LOCATIONS table to hold address information for company departments.

REM HR.DEPARTMENTS has a foreign key to this table.

CREATE TABLE locations

( location\_id NUMBER(4)

, street\_address VARCHAR2(40)

, postal\_code VARCHAR2(12)

, city VARCHAR2(30)

CONSTRAINT loc\_city\_nn NOT NULL

, state\_province VARCHAR2(25)

, country\_id CHAR(2)

) ;

CREATE UNIQUE INDEX loc\_id\_pk

ON locations (location\_id) ;

ALTER TABLE locations

ADD ( CONSTRAINT loc\_id\_pk

PRIMARY KEY (location\_id)

, CONSTRAINT loc\_c\_id\_fk

FOREIGN KEY (country\_id)

REFERENCES countries(country\_id)

) ;

Rem Useful for any subsequent addition of rows to locations table

Rem Starts with 3300

CREATE SEQUENCE locations\_seq

START WITH 3300

INCREMENT BY 100

MAXVALUE 9900

NOCACHE

NOCYCLE;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the DEPARTMENTS table to hold company department information.

REM HR.EMPLOYEES and HR.JOB\_HISTORY have a foreign key to this table.

CREATE TABLE departments

( department\_id NUMBER(4)

, department\_name VARCHAR2(30)

CONSTRAINT dept\_name\_nn NOT NULL

, manager\_id NUMBER(6)

, location\_id NUMBER(4)

) ;

CREATE UNIQUE INDEX dept\_id\_pk

ON departments (department\_id) ;

ALTER TABLE departments

ADD ( CONSTRAINT dept\_id\_pk

PRIMARY KEY (department\_id)

, CONSTRAINT dept\_loc\_fk

FOREIGN KEY (location\_id)

REFERENCES locations (location\_id)

) ;

Rem Useful for any subsequent addition of rows to departments table

Rem Starts with 280

CREATE SEQUENCE departments\_seq

START WITH 280

INCREMENT BY 10

MAXVALUE 9990

NOCACHE

NOCYCLE;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the JOBS table to hold the different names of job roles within the company.

REM HR.EMPLOYEES has a foreign key to this table.

CREATE TABLE jobs

( job\_id VARCHAR2(10)

, job\_title VARCHAR2(35)

CONSTRAINT job\_title\_nn NOT NULL

, min\_salary NUMBER(6)

, max\_salary NUMBER(6)

) ;

CREATE UNIQUE INDEX job\_id\_pk

ON jobs (job\_id) ;

ALTER TABLE jobs

ADD ( CONSTRAINT job\_id\_pk

PRIMARY KEY(job\_id)

) ;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the EMPLOYEES table to hold the employee personnel

REM information for the company.

REM HR.EMPLOYEES has a self referencing foreign key to this table.

CREATE TABLE employees

( employee\_id NUMBER(6)

, first\_name VARCHAR2(20)

, last\_name VARCHAR2(25)

CONSTRAINT emp\_last\_name\_nn NOT NULL

, email VARCHAR2(25)

CONSTRAINT emp\_email\_nn NOT NULL

, phone\_number VARCHAR2(20)

, hire\_date DATE

CONSTRAINT emp\_hire\_date\_nn NOT NULL

, job\_id VARCHAR2(10)

CONSTRAINT emp\_job\_nn NOT NULL

, salary NUMBER(8,2)

, commission\_pct NUMBER(2,2)

, manager\_id NUMBER(6)

, department\_id NUMBER(4)

, CONSTRAINT emp\_salary\_min

CHECK (salary > 0)

, CONSTRAINT emp\_email\_uk

UNIQUE (email)

) ;

CREATE UNIQUE INDEX emp\_emp\_id\_pk

ON employees (employee\_id) ;

ALTER TABLE employees

ADD ( CONSTRAINT emp\_emp\_id\_pk

PRIMARY KEY (employee\_id)

, CONSTRAINT emp\_dept\_fk

FOREIGN KEY (department\_id)

REFERENCES departments

, CONSTRAINT emp\_job\_fk

FOREIGN KEY (job\_id)

REFERENCES jobs (job\_id)

, CONSTRAINT emp\_manager\_fk

FOREIGN KEY (manager\_id)

REFERENCES employees

) ;

ALTER TABLE departments

ADD ( CONSTRAINT dept\_mgr\_fk

FOREIGN KEY (manager\_id)

REFERENCES employees (employee\_id)

) ;

Rem Useful for any subsequent addition of rows to employees table

REM Starts with 207

CREATE SEQUENCE employees\_seq

START WITH 207

INCREMENT BY 1

NOCACHE

NOCYCLE;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the JOB\_HISTORY table to hold the history of jobs that

REM employees have held in the past.

REM HR.JOBS, HR\_DEPARTMENTS, and HR.EMPLOYEES have a foreign key to this table.

CREATE TABLE job\_history

( employee\_id NUMBER(6)

CONSTRAINT jhist\_employee\_nn NOT NULL

, start\_date DATE

CONSTRAINT jhist\_start\_date\_nn NOT NULL

, end\_date DATE

CONSTRAINT jhist\_end\_date\_nn NOT NULL

, job\_id VARCHAR2(10)

CONSTRAINT jhist\_job\_nn NOT NULL

, department\_id NUMBER(4)

, CONSTRAINT jhist\_date\_interval

CHECK (end\_date > start\_date)

) ;

CREATE UNIQUE INDEX jhist\_emp\_id\_st\_date\_pk

ON job\_history (employee\_id, start\_date) ;

ALTER TABLE job\_history

ADD ( CONSTRAINT jhist\_emp\_id\_st\_date\_pk

PRIMARY KEY (employee\_id, start\_date)

, CONSTRAINT jhist\_job\_fk

FOREIGN KEY (job\_id)

REFERENCES jobs

, CONSTRAINT jhist\_emp\_fk

FOREIGN KEY (employee\_id)

REFERENCES employees

, CONSTRAINT jhist\_dept\_fk

FOREIGN KEY (department\_id)

REFERENCES departments

) ;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM Create the EMP\_DETAILS\_VIEW that joins the employees, jobs,

REM departments, jobs, countries, and locations table to provide details

REM about employees.

CREATE OR REPLACE VIEW 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)

AS SELECT

e.employee\_id,

e.job\_id,

e.manager\_id,

e.department\_id,

d.location\_id,

l.country\_id,

e.first\_name,

e.last\_name,

e.salary,

e.commission\_pct,

d.department\_name,

j.job\_title,

l.city,

l.state\_province,

c.country\_name,

r.region\_name

FROM

employees e,

departments d,

jobs j,

locations l,

countries c,

regions r

WHERE e.department\_id = d.department\_id

AND d.location\_id = l.location\_id

AND l.country\_id = c.country\_id

AND c.region\_id = r.region\_id

AND j.job\_id = e.job\_id

WITH READ ONLY;

COMMIT;

ALTER SESSION SET NLS\_LANGUAGE=American;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*insert data into the REGIONS table

INSERT INTO regions VALUES

( 1

, 'Europe'

);

INSERT INTO regions VALUES

( 2

, 'Americas'

);

INSERT INTO regions VALUES

( 3

, 'Asia'

);

INSERT INTO regions VALUES

( 4

, 'Middle East and Africa'

);

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*insert data into the COUNTRIES table

INSERT INTO countries VALUES

( 'IT'

, 'Italy'

, 1

);

INSERT INTO countries VALUES

( 'JP'

, 'Japan'

, 3

);

INSERT INTO countries VALUES

( 'US'

, 'United States of America'

, 2

);

INSERT INTO countries VALUES

( 'CA'

, 'Canada'

, 2

);

INSERT INTO countries VALUES

( 'CN'

, 'China'

, 3

);

INSERT INTO countries VALUES

( 'IN'

, 'India'

, 3

);

INSERT INTO countries VALUES

( 'AU'

, 'Australia'

, 3

);

INSERT INTO countries VALUES

( 'ZW'

, 'Zimbabwe'

, 4

);

INSERT INTO countries VALUES

( 'SG'

, 'Singapore'

, 3

);

INSERT INTO countries VALUES

( 'UK'

, 'United Kingdom'

, 1

);

INSERT INTO countries VALUES

( 'FR'

, 'France'

, 1

);

INSERT INTO countries VALUES

( 'DE'

, 'Germany'

, 1

);

INSERT INTO countries VALUES

( 'ZM'

, 'Zambia'

, 4

);

INSERT INTO countries VALUES

( 'EG'

, 'Egypt'

, 4

);

INSERT INTO countries VALUES

( 'BR'

, 'Brazil'

, 2

);

INSERT INTO countries VALUES

( 'CH'

, 'Switzerland'

, 1

);

INSERT INTO countries VALUES

( 'NL'

, 'Netherlands'

, 1

);

INSERT INTO countries VALUES

( 'MX'

, 'Mexico'

, 2

);

INSERT INTO countries VALUES

( 'KW'

, 'Kuwait'

, 4

);

INSERT INTO countries VALUES

( 'IL'

, 'Israel'

, 4

);

INSERT INTO countries VALUES

( 'DK'

, 'Denmark'

, 1

);

INSERT INTO countries VALUES

( 'HK'

, 'HongKong'

, 3

);

INSERT INTO countries VALUES

( 'NG'

, 'Nigeria'

, 4

);

INSERT INTO countries VALUES

( 'AR'

, 'Argentina'

, 2

);

INSERT INTO countries VALUES

( 'BE'

, 'Belgium'

, 1

);

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*insert data into the LOCATIONS table

INSERT INTO locations VALUES

( 1000

, '1297 Via Cola di Rie'

, '00989'

, 'Roma'

, NULL

, 'IT'

);

INSERT INTO locations VALUES

( 1100

, '93091 Calle della Testa'

, '10934'

, 'Venice'

, NULL

, 'IT'

);

INSERT INTO locations VALUES

( 1200

, '2017 Shinjuku-ku'

, '1689'

, 'Tokyo'

, 'Tokyo Prefecture'

, 'JP'

);

INSERT INTO locations VALUES

( 1300

, '9450 Kamiya-cho'

, '6823'

, 'Hiroshima'

, NULL

, 'JP'

);

INSERT INTO locations VALUES

( 1400

, '2014 Jabberwocky Rd'

, '26192'

, 'Southlake'

, 'Texas'

, 'US'

);

INSERT INTO locations VALUES

( 1500

, '2011 Interiors Blvd'

, '99236'

, 'South San Francisco'

, 'California'

, 'US'

);

INSERT INTO locations VALUES

( 1600

, '2007 Zagora St'

, '50090'

, 'South Brunswick'

, 'New Jersey'

, 'US'

);

INSERT INTO locations VALUES

( 1700

, '2004 Charade Rd'

, '98199'

, 'Seattle'

, 'Washington'

, 'US'

);

INSERT INTO locations VALUES

( 1800

, '147 Spadina Ave'

, 'M5V 2L7'

, 'Toronto'

, 'Ontario'

, 'CA'

);

INSERT INTO locations VALUES

( 1900

, '6092 Boxwood St'

, 'YSW 9T2'

, 'Whitehorse'

, 'Yukon'

, 'CA'

);

INSERT INTO locations VALUES

( 2000

, '40-5-12 Laogianggen'

, '190518'

, 'Beijing'

, NULL

, 'CN'

);

INSERT INTO locations VALUES

( 2100

, '1298 Vileparle (E)'

, '490231'

, 'Bombay'

, 'Maharashtra'

, 'IN'

);

INSERT INTO locations VALUES

( 2200

, '12-98 Victoria Street'

, '2901'

, 'Sydney'

, 'New South Wales'

, 'AU'

);

INSERT INTO locations VALUES

( 2300

, '198 Clementi North'

, '540198'

, 'Singapore'

, NULL

, 'SG'

);

INSERT INTO locations VALUES

( 2400

, '8204 Arthur St'

, NULL

, 'London'

, NULL

, 'UK'

);

INSERT INTO locations VALUES

( 2500

, 'Magdalen Centre, The Oxford Science Park'

, 'OX9 9ZB'

, 'Oxford'

, 'Oxford'

, 'UK'

);

INSERT INTO locations VALUES

( 2600

, '9702 Chester Road'

, '09629850293'

, 'Stretford'

, 'Manchester'

, 'UK'

);

INSERT INTO locations VALUES

( 2700

, 'Schwanthalerstr. 7031'

, '80925'

, 'Munich'

, 'Bavaria'

, 'DE'

);

INSERT INTO locations VALUES

( 2800

, 'Rua Frei Caneca 1360 '

, '01307-002'

, 'Sao Paulo'

, 'Sao Paulo'

, 'BR'

);

INSERT INTO locations VALUES

( 2900

, '20 Rue des Corps-Saints'

, '1730'

, 'Geneva'

, 'Geneve'

, 'CH'

);

INSERT INTO locations VALUES

( 3000

, 'Murtenstrasse 921'

, '3095'

, 'Bern'

, 'BE'

, 'CH'

);

INSERT INTO locations VALUES

( 3100

, 'Pieter Breughelstraat 837'

, '3029SK'

, 'Utrecht'

, 'Utrecht'

, 'NL'

);

INSERT INTO locations VALUES

( 3200

, 'Mariano Escobedo 9991'

, '11932'

, 'Mexico City'

, 'Distrito Federal,'

, 'MX'

);

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*insert data into the DEPARTMENTS table

REM disable integrity constraint to EMPLOYEES to load data

ALTER TABLE departments

DISABLE CONSTRAINT dept\_mgr\_fk;

INSERT INTO departments VALUES

( 10

, 'Administration'

, 200

, 1700

);

INSERT INTO departments VALUES

( 20

, 'Marketing'

, 201

, 1800

);

INSERT INTO departments VALUES

( 30

, 'Purchasing'

, 114

, 1700

);

INSERT INTO departments VALUES

( 40

, 'Human Resources'

, 203

, 2400

);

INSERT INTO departments VALUES

( 50

, 'Shipping'

, 121

, 1500

);

INSERT INTO departments VALUES

( 60

, 'IT'

, 103

, 1400

);

INSERT INTO departments VALUES

( 70

, 'Public Relations'

, 204

, 2700

);

INSERT INTO departments VALUES

( 80

, 'Sales'

, 145

, 2500

);

INSERT INTO departments VALUES

( 90

, 'Executive'

, 100

, 1700

);

INSERT INTO departments VALUES

( 100

, 'Finance'

, 108

, 1700

);

INSERT INTO departments VALUES

( 110

, 'Accounting'

, 205

, 1700

);

INSERT INTO departments VALUES

( 120

, 'Treasury'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 130

, 'Corporate Tax'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 140

, 'Control And Credit'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 150

, 'Shareholder Services'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 160

, 'Benefits'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 170

, 'Manufacturing'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 180

, 'Construction'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 190

, 'Contracting'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 200

, 'Operations'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 210

, 'IT Support'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 220

, 'NOC'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 230

, 'IT Helpdesk'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 240

, 'Government Sales'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 250

, 'Retail Sales'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 260

, 'Recruiting'

, NULL

, 1700

);

INSERT INTO departments VALUES

( 270

, 'Payroll'

, NULL

, 1700

);

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*insert data into the JOBS table

INSERT INTO jobs VALUES

( 'AD\_PRES'

, 'President'

, 20000

, 40000

);

INSERT INTO jobs VALUES

( 'AD\_VP'

, 'Administration Vice President'

, 15000

, 30000

);

INSERT INTO jobs VALUES

( 'AD\_ASST'

, 'Administration Assistant'

, 3000

, 6000

);

INSERT INTO jobs VALUES

( 'FI\_MGR'

, 'Finance Manager'

, 8200

, 16000

);

INSERT INTO jobs VALUES

( 'FI\_ACCOUNT'

, 'Accountant'

, 4200

, 9000

);

INSERT INTO jobs VALUES

( 'AC\_MGR'

, 'Accounting Manager'

, 8200

, 16000

);

INSERT INTO jobs VALUES

( 'AC\_ACCOUNT'

, 'Public Accountant'

, 4200

, 9000

);

INSERT INTO jobs VALUES

( 'SA\_MAN'

, 'Sales Manager'

, 10000

, 20000

);

INSERT INTO jobs VALUES

( 'SA\_REP'

, 'Sales Representative'

, 6000

, 12000

);

INSERT INTO jobs VALUES

( 'PU\_MAN'

, 'Purchasing Manager'

, 8000

, 15000

);

INSERT INTO jobs VALUES

( 'PU\_CLERK'

, 'Purchasing Clerk'

, 2500

, 5500

);

INSERT INTO jobs VALUES

( 'ST\_MAN'

, 'Stock Manager'

, 5500

, 8500

);

INSERT INTO jobs VALUES

( 'ST\_CLERK'

, 'Stock Clerk'

, 2000

, 5000

);

INSERT INTO jobs VALUES

( 'SH\_CLERK'

, 'Shipping Clerk'

, 2500

, 5500

);

INSERT INTO jobs VALUES

( 'IT\_PROG'

, 'Programmer'

, 4000

, 10000

);

INSERT INTO jobs VALUES

( 'MK\_MAN'

, 'Marketing Manager'

, 9000

, 15000

);

INSERT INTO jobs VALUES

( 'MK\_REP'

, 'Marketing Representative'

, 4000

, 9000

);

INSERT INTO jobs VALUES

( 'HR\_REP'

, 'Human Resources Representative'

, 4000

, 9000

);

INSERT INTO jobs VALUES

( 'PR\_REP'

, 'Public Relations Representative'

, 4500

, 10500

);

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*insert data into the EMPLOYEES table

INSERT INTO employees VALUES

( 100

, 'Steven'

, 'King'

, 'SKING'

, '515.123.4567'

, TO\_DATE('17-JUN-1987', 'dd-MON-yyyy')

, 'AD\_PRES'

, 24000

, NULL

, NULL

, 90

);

INSERT INTO employees VALUES

( 101

, 'Neena'

, 'Kochhar'

, 'NKOCHHAR'

, '515.123.4568'

, TO\_DATE('21-SEP-1989', 'dd-MON-yyyy')

, 'AD\_VP'

, 17000

, NULL

, 100

, 90

);

INSERT INTO employees VALUES

( 102

, 'Lex'

, 'De Haan'

, 'LDEHAAN'

, '515.123.4569'

, TO\_DATE('13-JAN-1993', 'dd-MON-yyyy')

, 'AD\_VP'

, 17000

, NULL

, 100

, 90

);

INSERT INTO employees VALUES

( 103

, 'Alexander'

, 'Hunold'

, 'AHUNOLD'

, '590.423.4567'

, TO\_DATE('03-JAN-1990', 'dd-MON-yyyy')

, 'IT\_PROG'

, 9000

, NULL

, 102

, 60

);

INSERT INTO employees VALUES

( 104

, 'Bruce'

, 'Ernst'

, 'BERNST'

, '590.423.4568'

, TO\_DATE('21-MAY-1991', 'dd-MON-yyyy')

, 'IT\_PROG'

, 6000

, NULL

, 103

, 60

);

INSERT INTO employees VALUES

( 105

, 'David'

, 'Austin'

, 'DAUSTIN'

, '590.423.4569'

, TO\_DATE('25-JUN-1997', 'dd-MON-yyyy')

, 'IT\_PROG'

, 4800

, NULL

, 103

, 60

);

INSERT INTO employees VALUES

( 106

, 'Valli'

, 'Pataballa'

, 'VPATABAL'

, '590.423.4560'

, TO\_DATE('05-FEB-1998', 'dd-MON-yyyy')

, 'IT\_PROG'

, 4800

, NULL

, 103

, 60

);

INSERT INTO employees VALUES

( 107

, 'Diana'

, 'Lorentz'

, 'DLORENTZ'

, '590.423.5567'

, TO\_DATE('07-FEB-1999', 'dd-MON-yyyy')

, 'IT\_PROG'

, 4200

, NULL

, 103

, 60

);

INSERT INTO employees VALUES

( 108

, 'Nancy'

, 'Greenberg'

, 'NGREENBE'

, '515.124.4569'

, TO\_DATE('17-AUG-1994', 'dd-MON-yyyy')

, 'FI\_MGR'

, 12000

, NULL

, 101

, 100

);

INSERT INTO employees VALUES

( 109

, 'Daniel'

, 'Faviet'

, 'DFAVIET'

, '515.124.4169'

, TO\_DATE('16-AUG-1994', 'dd-MON-yyyy')

, 'FI\_ACCOUNT'

, 9000

, NULL

, 108

, 100

);

INSERT INTO employees VALUES

( 110

, 'John'

, 'Chen'

, 'JCHEN'

, '515.124.4269'

, TO\_DATE('28-SEP-1997', 'dd-MON-yyyy')

, 'FI\_ACCOUNT'

, 8200

, NULL

, 108

, 100

);

INSERT INTO employees VALUES

( 111

, 'Ismael'

, 'Sciarra'

, 'ISCIARRA'

, '515.124.4369'

, TO\_DATE('30-SEP-1997', 'dd-MON-yyyy')

, 'FI\_ACCOUNT'

, 7700

, NULL

, 108

, 100

);

INSERT INTO employees VALUES

( 112

, 'Jose Manuel'

, 'Urman'

, 'JMURMAN'

, '515.124.4469'

, TO\_DATE('07-MAR-1998', 'dd-MON-yyyy')

, 'FI\_ACCOUNT'

, 7800

, NULL

, 108

, 100

);

INSERT INTO employees VALUES

( 113

, 'Luis'

, 'Popp'

, 'LPOPP'

, '515.124.4567'

, TO\_DATE('07-DEC-1999', 'dd-MON-yyyy')

, 'FI\_ACCOUNT'

, 6900

, NULL

, 108

, 100

);

INSERT INTO employees VALUES

( 114

, 'Den'

, 'Raphaely'

, 'DRAPHEAL'

, '515.127.4561'

, TO\_DATE('07-DEC-1994', 'dd-MON-yyyy')

, 'PU\_MAN'

, 11000

, NULL

, 100

, 30

);

INSERT INTO employees VALUES

( 115

, 'Alexander'

, 'Khoo'

, 'AKHOO'

, '515.127.4562'

, TO\_DATE('18-MAY-1995', 'dd-MON-yyyy')

, 'PU\_CLERK'

, 3100

, NULL

, 114

, 30

);

INSERT INTO employees VALUES

( 116

, 'Shelli'

, 'Baida'

, 'SBAIDA'

, '515.127.4563'

, TO\_DATE('24-DEC-1997', 'dd-MON-yyyy')

, 'PU\_CLERK'

, 2900

, NULL

, 114

, 30

);

INSERT INTO employees VALUES

( 117

, 'Sigal'

, 'Tobias'

, 'STOBIAS'

, '515.127.4564'

, TO\_DATE('24-JUL-1997', 'dd-MON-yyyy')

, 'PU\_CLERK'

, 2800

, NULL

, 114

, 30

);

INSERT INTO employees VALUES

( 118

, 'Guy'

, 'Himuro'

, 'GHIMURO'

, '515.127.4565'

, TO\_DATE('15-NOV-1998', 'dd-MON-yyyy')

, 'PU\_CLERK'

, 2600

, NULL

, 114

, 30

);

INSERT INTO employees VALUES

( 119

, 'Karen'

, 'Colmenares'

, 'KCOLMENA'

, '515.127.4566'

, TO\_DATE('10-AUG-1999', 'dd-MON-yyyy')

, 'PU\_CLERK'

, 2500

, NULL

, 114

, 30

);

INSERT INTO employees VALUES

( 120

, 'Matthew'

, 'Weiss'

, 'MWEISS'

, '650.123.1234'

, TO\_DATE('18-JUL-1996', 'dd-MON-yyyy')

, 'ST\_MAN'

, 8000

, NULL

, 100

, 50

);

INSERT INTO employees VALUES

( 121

, 'Adam'

, 'Fripp'

, 'AFRIPP'

, '650.123.2234'

, TO\_DATE('10-APR-1997', 'dd-MON-yyyy')

, 'ST\_MAN'

, 8200

, NULL

, 100

, 50

);

INSERT INTO employees VALUES

( 122

, 'Payam'

, 'Kaufling'

, 'PKAUFLIN'

, '650.123.3234'

, TO\_DATE('01-MAY-1995', 'dd-MON-yyyy')

, 'ST\_MAN'

, 7900

, NULL

, 100

, 50

);

INSERT INTO employees VALUES

( 123

, 'Shanta'

, 'Vollman'

, 'SVOLLMAN'

, '650.123.4234'

, TO\_DATE('10-OCT-1997', 'dd-MON-yyyy')

, 'ST\_MAN'

, 6500

, NULL

, 100

, 50

);

INSERT INTO employees VALUES

( 124

, 'Kevin'

, 'Mourgos'

, 'KMOURGOS'

, '650.123.5234'

, TO\_DATE('16-NOV-1999', 'dd-MON-yyyy')

, 'ST\_MAN'

, 5800

, NULL

, 100

, 50

);

INSERT INTO employees VALUES

( 125

, 'Julia'

, 'Nayer'

, 'JNAYER'

, '650.124.1214'

, TO\_DATE('16-JUL-1997', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 3200

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 126

, 'Irene'

, 'Mikkilineni'

, 'IMIKKILI'

, '650.124.1224'

, TO\_DATE('28-SEP-1998', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2700

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 127

, 'James'

, 'Landry'

, 'JLANDRY'

, '650.124.1334'

, TO\_DATE('14-JAN-1999', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2400

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 128

, 'Steven'

, 'Markle'

, 'SMARKLE'

, '650.124.1434'

, TO\_DATE('08-MAR-2000', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2200

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 129

, 'Laura'

, 'Bissot'

, 'LBISSOT'

, '650.124.5234'

, TO\_DATE('20-AUG-1997', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 3300

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 130

, 'Mozhe'

, 'Atkinson'

, 'MATKINSO'

, '650.124.6234'

, TO\_DATE('30-OCT-1997', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2800

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 131

, 'James'

, 'Marlow'

, 'JAMRLOW'

, '650.124.7234'

, TO\_DATE('16-FEB-1997', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2500

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 132

, 'TJ'

, 'Olson'

, 'TJOLSON'

, '650.124.8234'

, TO\_DATE('10-APR-1999', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2100

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 133

, 'Jason'

, 'Mallin'

, 'JMALLIN'

, '650.127.1934'

, TO\_DATE('14-JUN-1996', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 3300

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 134

, 'Michael'

, 'Rogers'

, 'MROGERS'

, '650.127.1834'

, TO\_DATE('26-AUG-1998', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2900

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 135

, 'Ki'

, 'Gee'

, 'KGEE'

, '650.127.1734'

, TO\_DATE('12-DEC-1999', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2400

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 136

, 'Hazel'

, 'Philtanker'

, 'HPHILTAN'

, '650.127.1634'

, TO\_DATE('06-FEB-2000', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2200

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 137

, 'Renske'

, 'Ladwig'

, 'RLADWIG'

, '650.121.1234'

, TO\_DATE('14-JUL-1995', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 3600

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 138

, 'Stephen'

, 'Stiles'

, 'SSTILES'

, '650.121.2034'

, TO\_DATE('26-OCT-1997', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 3200

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 139

, 'John'

, 'Seo'

, 'JSEO'

, '650.121.2019'

, TO\_DATE('12-FEB-1998', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2700

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 140

, 'Joshua'

, 'Patel'

, 'JPATEL'

, '650.121.1834'

, TO\_DATE('06-APR-1998', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2500

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 141

, 'Trenna'

, 'Rajs'

, 'TRAJS'

, '650.121.8009'

, TO\_DATE('17-OCT-1995', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 3500

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 142

, 'Curtis'

, 'Davies'

, 'CDAVIES'

, '650.121.2994'

, TO\_DATE('29-JAN-1997', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 3100

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 143

, 'Randall'

, 'Matos'

, 'RMATOS'

, '650.121.2874'

, TO\_DATE('15-MAR-1998', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2600

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 144

, 'Peter'

, 'Vargas'

, 'PVARGAS'

, '650.121.2004'

, TO\_DATE('09-JUL-1998', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 2500

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 145

, 'John'

, 'Russell'

, 'JRUSSEL'

, '011.44.1344.429268'

, TO\_DATE('01-OCT-1996', 'dd-MON-yyyy')

, 'SA\_MAN'

, 14000

, .4

, 100

, 80

);

INSERT INTO employees VALUES

( 146

, 'Karen'

, 'Partners'

, 'KPARTNER'

, '011.44.1344.467268'

, TO\_DATE('05-JAN-1997', 'dd-MON-yyyy')

, 'SA\_MAN'

, 13500

, .3

, 100

, 80

);

INSERT INTO employees VALUES

( 147

, 'Alberto'

, 'Errazuriz'

, 'AERRAZUR'

, '011.44.1344.429278'

, TO\_DATE('10-MAR-1997', 'dd-MON-yyyy')

, 'SA\_MAN'

, 12000

, .3

, 100

, 80

);

INSERT INTO employees VALUES

( 148

, 'Gerald'

, 'Cambrault'

, 'GCAMBRAU'

, '011.44.1344.619268'

, TO\_DATE('15-OCT-1999', 'dd-MON-yyyy')

, 'SA\_MAN'

, 11000

, .3

, 100

, 80

);

INSERT INTO employees VALUES

( 149

, 'Eleni'

, 'Zlotkey'

, 'EZLOTKEY'

, '011.44.1344.429018'

, TO\_DATE('29-JAN-2000', 'dd-MON-yyyy')

, 'SA\_MAN'

, 10500

, .2

, 100

, 80

);

INSERT INTO employees VALUES

( 150

, 'Peter'

, 'Tucker'

, 'PTUCKER'

, '011.44.1344.129268'

, TO\_DATE('30-JAN-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 10000

, .3

, 145

, 80

);

INSERT INTO employees VALUES

( 151

, 'David'

, 'Bernstein'

, 'DBERNSTE'

, '011.44.1344.345268'

, TO\_DATE('24-MAR-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 9500

, .25

, 145

, 80

);

INSERT INTO employees VALUES

( 152

, 'Peter'

, 'Hall'

, 'PHALL'

, '011.44.1344.478968'

, TO\_DATE('20-AUG-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 9000

, .25

, 145

, 80

);

INSERT INTO employees VALUES

( 153

, 'Christopher'

, 'Olsen'

, 'COLSEN'

, '011.44.1344.498718'

, TO\_DATE('30-MAR-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 8000

, .2

, 145

, 80

);

INSERT INTO employees VALUES

( 154

, 'Nanette'

, 'Cambrault'

, 'NCAMBRAU'

, '011.44.1344.987668'

, TO\_DATE('09-DEC-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 7500

, .2

, 145

, 80

);

INSERT INTO employees VALUES

( 155

, 'Oliver'

, 'Tuvault'

, 'OTUVAULT'

, '011.44.1344.486508'

, TO\_DATE('23-NOV-1999', 'dd-MON-yyyy')

, 'SA\_REP'

, 7000

, .15

, 145

, 80

);

INSERT INTO employees VALUES

( 156

, 'Janette'

, 'King'

, 'JKING'

, '011.44.1345.429268'

, TO\_DATE('30-JAN-1996', 'dd-MON-yyyy')

, 'SA\_REP'

, 10000

, .35

, 146

, 80

);

INSERT INTO employees VALUES

( 157

, 'Patrick'

, 'Sully'

, 'PSULLY'

, '011.44.1345.929268'

, TO\_DATE('04-MAR-1996', 'dd-MON-yyyy')

, 'SA\_REP'

, 9500

, .35

, 146

, 80

);

INSERT INTO employees VALUES

( 158

, 'Allan'

, 'McEwen'

, 'AMCEWEN'

, '011.44.1345.829268'

, TO\_DATE('01-AUG-1996', 'dd-MON-yyyy')

, 'SA\_REP'

, 9000

, .35

, 146

, 80

);

INSERT INTO employees VALUES

( 159

, 'Lindsey'

, 'Smith'

, 'LSMITH'

, '011.44.1345.729268'

, TO\_DATE('10-MAR-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 8000

, .3

, 146

, 80

);

INSERT INTO employees VALUES

( 160

, 'Louise'

, 'Doran'

, 'LDORAN'

, '011.44.1345.629268'

, TO\_DATE('15-DEC-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 7500

, .3

, 146

, 80

);

INSERT INTO employees VALUES

( 161

, 'Sarath'

, 'Sewall'

, 'SSEWALL'

, '011.44.1345.529268'

, TO\_DATE('03-NOV-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 7000

, .25

, 146

, 80

);

INSERT INTO employees VALUES

( 162

, 'Clara'

, 'Vishney'

, 'CVISHNEY'

, '011.44.1346.129268'

, TO\_DATE('11-NOV-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 10500

, .25

, 147

, 80

);

INSERT INTO employees VALUES

( 163

, 'Danielle'

, 'Greene'

, 'DGREENE'

, '011.44.1346.229268'

, TO\_DATE('19-MAR-1999', 'dd-MON-yyyy')

, 'SA\_REP'

, 9500

, .15

, 147

, 80

);

INSERT INTO employees VALUES

( 164

, 'Mattea'

, 'Marvins'

, 'MMARVINS'

, '011.44.1346.329268'

, TO\_DATE('24-JAN-2000', 'dd-MON-yyyy')

, 'SA\_REP'

, 7200

, .10

, 147

, 80

);

INSERT INTO employees VALUES

( 165

, 'David'

, 'Lee'

, 'DLEE'

, '011.44.1346.529268'

, TO\_DATE('23-FEB-2000', 'dd-MON-yyyy')

, 'SA\_REP'

, 6800

, .1

, 147

, 80

);

INSERT INTO employees VALUES

( 166

, 'Sundar'

, 'Ande'

, 'SANDE'

, '011.44.1346.629268'

, TO\_DATE('24-MAR-2000', 'dd-MON-yyyy')

, 'SA\_REP'

, 6400

, .10

, 147

, 80

);

INSERT INTO employees VALUES

( 167

, 'Amit'

, 'Banda'

, 'ABANDA'

, '011.44.1346.729268'

, TO\_DATE('21-APR-2000', 'dd-MON-yyyy')

, 'SA\_REP'

, 6200

, .10

, 147

, 80

);

INSERT INTO employees VALUES

( 168

, 'Lisa'

, 'Ozer'

, 'LOZER'

, '011.44.1343.929268'

, TO\_DATE('11-MAR-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 11500

, .25

, 148

, 80

);

INSERT INTO employees VALUES

( 169

, 'Harrison'

, 'Bloom'

, 'HBLOOM'

, '011.44.1343.829268'

, TO\_DATE('23-MAR-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 10000

, .20

, 148

, 80

);

INSERT INTO employees VALUES

( 170

, 'Tayler'

, 'Fox'

, 'TFOX'

, '011.44.1343.729268'

, TO\_DATE('24-JAN-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 9600

, .20

, 148

, 80

);

INSERT INTO employees VALUES

( 171

, 'William'

, 'Smith'

, 'WSMITH'

, '011.44.1343.629268'

, TO\_DATE('23-FEB-1999', 'dd-MON-yyyy')

, 'SA\_REP'

, 7400

, .15

, 148

, 80

);

INSERT INTO employees VALUES

( 172

, 'Elizabeth'

, 'Bates'

, 'EBATES'

, '011.44.1343.529268'

, TO\_DATE('24-MAR-1999', 'dd-MON-yyyy')

, 'SA\_REP'

, 7300

, .15

, 148

, 80

);

INSERT INTO employees VALUES

( 173

, 'Sundita'

, 'Kumar'

, 'SKUMAR'

, '011.44.1343.329268'

, TO\_DATE('21-APR-2000', 'dd-MON-yyyy')

, 'SA\_REP'

, 6100

, .10

, 148

, 80

);

INSERT INTO employees VALUES

( 174

, 'Ellen'

, 'Abel'

, 'EABEL'

, '011.44.1644.429267'

, TO\_DATE('11-MAY-1996', 'dd-MON-yyyy')

, 'SA\_REP'

, 11000

, .30

, 149

, 80

);

INSERT INTO employees VALUES

( 175

, 'Alyssa'

, 'Hutton'

, 'AHUTTON'

, '011.44.1644.429266'

, TO\_DATE('19-MAR-1997', 'dd-MON-yyyy')

, 'SA\_REP'

, 8800

, .25

, 149

, 80

);

INSERT INTO employees VALUES

( 176

, 'Jonathon'

, 'Taylor'

, 'JTAYLOR'

, '011.44.1644.429265'

, TO\_DATE('24-MAR-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 8600

, .20

, 149

, 80

);

INSERT INTO employees VALUES

( 177

, 'Jack'

, 'Livingston'

, 'JLIVINGS'

, '011.44.1644.429264'

, TO\_DATE('23-APR-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 8400

, .20

, 149

, 80

);

INSERT INTO employees VALUES

( 178

, 'Kimberely'

, 'Grant'

, 'KGRANT'

, '011.44.1644.429263'

, TO\_DATE('24-MAY-1999', 'dd-MON-yyyy')

, 'SA\_REP'

, 7000

, .15

, 149

, NULL

);

INSERT INTO employees VALUES

( 179

, 'Charles'

, 'Johnson'

, 'CJOHNSON'

, '011.44.1644.429262'

, TO\_DATE('04-JAN-2000', 'dd-MON-yyyy')

, 'SA\_REP'

, 6200

, .10

, 149

, 80

);

INSERT INTO employees VALUES

( 180

, 'Winston'

, 'Taylor'

, 'WTAYLOR'

, '650.507.9876'

, TO\_DATE('24-JAN-1998', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3200

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 181

, 'Jean'

, 'Fleaur'

, 'JFLEAUR'

, '650.507.9877'

, TO\_DATE('23-FEB-1998', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3100

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 182

, 'Martha'

, 'Sullivan'

, 'MSULLIVA'

, '650.507.9878'

, TO\_DATE('21-JUN-1999', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 2500

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 183

, 'Girard'

, 'Geoni'

, 'GGEONI'

, '650.507.9879'

, TO\_DATE('03-FEB-2000', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 2800

, NULL

, 120

, 50

);

INSERT INTO employees VALUES

( 184

, 'Nandita'

, 'Sarchand'

, 'NSARCHAN'

, '650.509.1876'

, TO\_DATE('27-JAN-1996', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 4200

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 185

, 'Alexis'

, 'Bull'

, 'ABULL'

, '650.509.2876'

, TO\_DATE('20-FEB-1997', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 4100

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 186

, 'Julia'

, 'Dellinger'

, 'JDELLING'

, '650.509.3876'

, TO\_DATE('24-JUN-1998', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3400

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 187

, 'Anthony'

, 'Cabrio'

, 'ACABRIO'

, '650.509.4876'

, TO\_DATE('07-FEB-1999', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3000

, NULL

, 121

, 50

);

INSERT INTO employees VALUES

( 188

, 'Kelly'

, 'Chung'

, 'KCHUNG'

, '650.505.1876'

, TO\_DATE('14-JUN-1997', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3800

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 189

, 'Jennifer'

, 'Dilly'

, 'JDILLY'

, '650.505.2876'

, TO\_DATE('13-AUG-1997', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3600

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 190

, 'Timothy'

, 'Gates'

, 'TGATES'

, '650.505.3876'

, TO\_DATE('11-JUL-1998', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 2900

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 191

, 'Randall'

, 'Perkins'

, 'RPERKINS'

, '650.505.4876'

, TO\_DATE('19-DEC-1999', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 2500

, NULL

, 122

, 50

);

INSERT INTO employees VALUES

( 192

, 'Sarah'

, 'Bell'

, 'SBELL'

, '650.501.1876'

, TO\_DATE('04-FEB-1996', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 4000

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 193

, 'Britney'

, 'Everett'

, 'BEVERETT'

, '650.501.2876'

, TO\_DATE('03-MAR-1997', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3900

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 194

, 'Samuel'

, 'McCain'

, 'SMCCAIN'

, '650.501.3876'

, TO\_DATE('01-JUL-1998', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3200

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 195

, 'Vance'

, 'Jones'

, 'VJONES'

, '650.501.4876'

, TO\_DATE('17-MAR-1999', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 2800

, NULL

, 123

, 50

);

INSERT INTO employees VALUES

( 196

, 'Alana'

, 'Walsh'

, 'AWALSH'

, '650.507.9811'

, TO\_DATE('24-APR-1998', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3100

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 197

, 'Kevin'

, 'Feeney'

, 'KFEENEY'

, '650.507.9822'

, TO\_DATE('23-MAY-1998', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 3000

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 198

, 'Donald'

, 'OConnell'

, 'DOCONNEL'

, '650.507.9833'

, TO\_DATE('21-JUN-1999', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 2600

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 199

, 'Douglas'

, 'Grant'

, 'DGRANT'

, '650.507.9844'

, TO\_DATE('13-JAN-2000', 'dd-MON-yyyy')

, 'SH\_CLERK'

, 2600

, NULL

, 124

, 50

);

INSERT INTO employees VALUES

( 200

, 'Jennifer'

, 'Whalen'

, 'JWHALEN'

, '515.123.4444'

, TO\_DATE('17-SEP-1987', 'dd-MON-yyyy')

, 'AD\_ASST'

, 4400

, NULL

, 101

, 10

);

INSERT INTO employees VALUES

( 201

, 'Michael'

, 'Hartstein'

, 'MHARTSTE'

, '515.123.5555'

, TO\_DATE('17-FEB-1996', 'dd-MON-yyyy')

, 'MK\_MAN'

, 13000

, NULL

, 100

, 20

);

INSERT INTO employees VALUES

( 202

, 'Pat'

, 'Fay'

, 'PFAY'

, '603.123.6666'

, TO\_DATE('17-AUG-1997', 'dd-MON-yyyy')

, 'MK\_REP'

, 6000

, NULL

, 201

, 20

);

INSERT INTO employees VALUES

( 203

, 'Susan'

, 'Mavris'

, 'SMAVRIS'

, '515.123.7777'

, TO\_DATE('07-JUN-1994', 'dd-MON-yyyy')

, 'HR\_REP'

, 6500

, NULL

, 101

, 40

);

INSERT INTO employees VALUES

( 204

, 'Hermann'

, 'Baer'

, 'HBAER'

, '515.123.8888'

, TO\_DATE('07-JUN-1994', 'dd-MON-yyyy')

, 'PR\_REP'

, 10000

, NULL

, 101

, 70

);

INSERT INTO employees VALUES

( 205

, 'Shelley'

, 'Higgins'

, 'SHIGGINS'

, '515.123.8080'

, TO\_DATE('07-JUN-1994', 'dd-MON-yyyy')

, 'AC\_MGR'

, 12000

, NULL

, 101

, 110

);

INSERT INTO employees VALUES

( 206

, 'William'

, 'Gietz'

, 'WGIETZ'

, '515.123.8181'

, TO\_DATE('07-JUN-1994', 'dd-MON-yyyy')

, 'AC\_ACCOUNT'

, 8300

, NULL

, 205

, 110

);

REM \*\*\*\*\*\*\*\*\* insert data into the JOB\_HISTORY table

INSERT INTO job\_history

VALUES (102

, TO\_DATE('13-JAN-1993', 'dd-MON-yyyy')

, TO\_DATE('24-JUL-1998', 'dd-MON-yyyy')

, 'IT\_PROG'

, 60);

INSERT INTO job\_history

VALUES (101

, TO\_DATE('21-SEP-1989', 'dd-MON-yyyy')

, TO\_DATE('27-OCT-1993', 'dd-MON-yyyy')

, 'AC\_ACCOUNT'

, 110);

INSERT INTO job\_history

VALUES (101

, TO\_DATE('28-OCT-1993', 'dd-MON-yyyy')

, TO\_DATE('15-MAR-1997', 'dd-MON-yyyy')

, 'AC\_MGR'

, 110);

INSERT INTO job\_history

VALUES (201

, TO\_DATE('17-FEB-1996', 'dd-MON-yyyy')

, TO\_DATE('19-DEC-1999', 'dd-MON-yyyy')

, 'MK\_REP'

, 20);

INSERT INTO job\_history

VALUES (114

, TO\_DATE('24-MAR-1998', 'dd-MON-yyyy')

, TO\_DATE('31-DEC-1999', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 50

);

INSERT INTO job\_history

VALUES (122

, TO\_DATE('01-JAN-1999', 'dd-MON-yyyy')

, TO\_DATE('31-DEC-1999', 'dd-MON-yyyy')

, 'ST\_CLERK'

, 50

);

INSERT INTO job\_history

VALUES (200

, TO\_DATE('17-SEP-1987', 'dd-MON-yyyy')

, TO\_DATE('17-JUN-1993', 'dd-MON-yyyy')

, 'AD\_ASST'

, 90

);

INSERT INTO job\_history

VALUES (176

, TO\_DATE('24-MAR-1998', 'dd-MON-yyyy')

, TO\_DATE('31-DEC-1998', 'dd-MON-yyyy')

, 'SA\_REP'

, 80

);

INSERT INTO job\_history

VALUES (176

, TO\_DATE('01-JAN-1999', 'dd-MON-yyyy')

, TO\_DATE('31-DEC-1999', 'dd-MON-yyyy')

, 'SA\_MAN'

, 80

);

INSERT INTO job\_history

VALUES (200

, TO\_DATE('01-JUL-1994', 'dd-MON-yyyy')

, TO\_DATE('31-DEC-1998', 'dd-MON-yyyy')

, 'AC\_ACCOUNT'

, 90

);

REM enable integrity constraint to DEPARTMENTS

ALTER TABLE departments

ENABLE CONSTRAINT dept\_mgr\_fk;

COMMIT;

CREATE INDEX emp\_department\_ix

ON employees (department\_id);

CREATE INDEX emp\_job\_ix

ON employees (job\_id);

CREATE INDEX emp\_manager\_ix

ON employees (manager\_id);

CREATE INDEX emp\_name\_ix

ON employees (last\_name, first\_name);

CREATE INDEX dept\_location\_ix

ON departments (location\_id);

CREATE INDEX jhist\_job\_ix

ON job\_history (job\_id);

CREATE INDEX jhist\_employee\_ix

ON job\_history (employee\_id);

CREATE INDEX jhist\_department\_ix

ON job\_history (department\_id);

CREATE INDEX loc\_city\_ix

ON locations (city);

CREATE INDEX loc\_state\_province\_ix

ON locations (state\_province);

CREATE INDEX loc\_country\_ix

ON locations (country\_id);

COMMIT;

REM procedure and statement trigger to allow dmls during business hours:

CREATE OR REPLACE PROCEDURE secure\_dml

IS

BEGIN

IF TO\_CHAR (SYSDATE, 'HH24:MI') NOT BETWEEN '08:00' AND '18:00'

OR TO\_CHAR (SYSDATE, 'DY') IN ('SAT', 'SUN') THEN

RAISE\_APPLICATION\_ERROR (-20205,

'You may only make changes during normal office hours');

END IF;

END secure\_dml;

/

CREATE OR REPLACE TRIGGER secure\_employees

BEFORE INSERT OR UPDATE OR DELETE ON employees

BEGIN

secure\_dml;

END secure\_employees;

/

ALTER TRIGGER secure\_employees DISABLE;

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

REM procedure to add a row to the JOB\_HISTORY table and row trigger

REM to call the procedure when data is updated in the job\_id or

REM department\_id columns in the EMPLOYEES table:

CREATE OR REPLACE PROCEDURE add\_job\_history

( p\_emp\_id job\_history.employee\_id%type

, p\_start\_date job\_history.start\_date%type

, p\_end\_date job\_history.end\_date%type

, p\_job\_id job\_history.job\_id%type

, p\_department\_id job\_history.department\_id%type

)

IS

BEGIN

INSERT INTO job\_history (employee\_id, start\_date, end\_date,

job\_id, department\_id)

VALUES(p\_emp\_id, p\_start\_date, p\_end\_date, p\_job\_id, p\_department\_id);

END add\_job\_history;

/

CREATE OR REPLACE TRIGGER update\_job\_history

AFTER UPDATE OF job\_id, department\_id ON employees

FOR EACH ROW

BEGIN

add\_job\_history(:old.employee\_id, :old.hire\_date, sysdate,

:old.job\_id, :old.department\_id);

END;

/

COMMIT;

COMMENT ON TABLE regions

IS 'Regions table that contains region numbers and names. Contains 4 rows; references with the Countries table.';

COMMENT ON COLUMN regions.region\_id

IS 'Primary key of regions table.';

COMMENT ON COLUMN regions.region\_name

IS 'Names of regions. Locations are in the countries of these regions.';

COMMENT ON TABLE locations

IS 'Locations table that contains specific address of a specific office,

warehouse, and/or production site of a company. Does not store addresses /

locations of customers. Contains 23 rows; references with the

departments and countries tables. ';

COMMENT ON COLUMN locations.location\_id

IS 'Primary key of locations table';

COMMENT ON COLUMN locations.street\_address

IS 'Street address of an office, warehouse, or production site of a company.

Contains building number and street name';

COMMENT ON COLUMN locations.postal\_code

IS 'Postal code of the location of an office, warehouse, or production site

of a company. ';

COMMENT ON COLUMN locations.city

IS 'A not null column that shows city where an office, warehouse, or

production site of a company is located. ';

COMMENT ON COLUMN locations.state\_province

IS 'State or Province where an office, warehouse, or production site of a

company is located.';

COMMENT ON COLUMN locations.country\_id

IS 'Country where an office, warehouse, or production site of a company is

located. Foreign key to country\_id column of the countries table.';

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

COMMENT ON TABLE departments

IS 'Departments table that shows details of departments where employees

work. Contains 27 rows; references with locations, employees, and job\_history tables.';

COMMENT ON COLUMN departments.department\_id

IS 'Primary key column of departments table.';

COMMENT ON COLUMN departments.department\_name

IS 'A not null column that shows name of a department. Administration,

Marketing, Purchasing, Human Resources, Shipping, IT, Executive, Public

Relations, Sales, Finance, and Accounting. ';

COMMENT ON COLUMN departments.manager\_id

IS 'Manager\_id of a department. Foreign key to employee\_id column of employees table. The manager\_id column of the employee table references this column.';

COMMENT ON COLUMN departments.location\_id

IS 'Location id where a department is located. Foreign key to location\_id column of locations table.';

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

COMMENT ON TABLE job\_history

IS 'Table that stores job history of the employees. If an employee

changes departments within the job or changes jobs within the department,

new rows get inserted into this table with old job information of the

employee. Contains a complex primary key: employee\_id+start\_date.

Contains 25 rows. References with jobs, employees, and departments tables.';

COMMENT ON COLUMN job\_history.employee\_id

IS 'A not null column in the complex primary key employee\_id+start\_date.

Foreign key to employee\_id column of the employee table';

COMMENT ON COLUMN job\_history.start\_date

IS 'A not null column in the complex primary key employee\_id+start\_date.

Must be less than the end\_date of the job\_history table. (enforced by

constraint jhist\_date\_interval)';

COMMENT ON COLUMN job\_history.end\_date

IS 'Last day of the employee in this job role. A not null column. Must be

greater than the start\_date of the job\_history table.

(enforced by constraint jhist\_date\_interval)';

COMMENT ON COLUMN job\_history.job\_id

IS 'Job role in which the employee worked in the past; foreign key to

job\_id column in the jobs table. A not null column.';

COMMENT ON COLUMN job\_history.department\_id

IS 'Department id in which the employee worked in the past; foreign key to deparment\_id column in the departments table';

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

COMMENT ON TABLE countries

IS 'country table. Contains 25 rows. References with locations table.';

COMMENT ON COLUMN countries.country\_id

IS 'Primary key of countries table.';

COMMENT ON COLUMN countries.country\_name

IS 'Country name';

COMMENT ON COLUMN countries.region\_id

IS 'Region ID for the country. Foreign key to region\_id column in the departments table.';

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

COMMENT ON TABLE jobs

IS 'jobs table with job titles and salary ranges. Contains 19 rows.

References with employees and job\_history table.';

COMMENT ON COLUMN jobs.job\_id

IS 'Primary key of jobs table.';

COMMENT ON COLUMN jobs.job\_title

IS 'A not null column that shows job title, e.g. AD\_VP, FI\_ACCOUNTANT';

COMMENT ON COLUMN jobs.min\_salary

IS 'Minimum salary for a job title.';

COMMENT ON COLUMN jobs.max\_salary

IS 'Maximum salary for a job title';

REM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

COMMENT ON TABLE employees

IS 'employees table. Contains 107 rows. References with departments,

jobs, job\_history tables. Contains a self reference.';

COMMENT ON COLUMN employees.employee\_id

IS 'Primary key of employees table.';

COMMENT ON COLUMN employees.first\_name

IS 'First name of the employee. A not null column.';

COMMENT ON COLUMN employees.last\_name

IS 'Last name of the employee. A not null column.';

COMMENT ON COLUMN employees.email

IS 'Email id of the employee';

COMMENT ON COLUMN employees.phone\_number

IS 'Phone number of the employee; includes country code and area code';

COMMENT ON COLUMN employees.hire\_date

IS 'Date when the employee started on this job. A not null column.';

COMMENT ON COLUMN employees.job\_id

IS 'Current job of the employee; foreign key to job\_id column of the

jobs table. A not null column.';

COMMENT ON COLUMN employees.salary

IS 'Monthly salary of the employee. Must be greater

than zero (enforced by constraint emp\_salary\_min)';

COMMENT ON COLUMN employees.commission\_pct

IS 'Commission percentage of the employee; Only employees in sales

department elgible for commission percentage';

COMMENT ON COLUMN employees.manager\_id

IS 'Manager id of the employee; has same domain as manager\_id in

departments table. Foreign key to employee\_id column of employees table.

(useful for reflexive joins and CONNECT BY query)';

COMMENT ON COLUMN employees.department\_id

IS 'Department id where employee works; foreign key to department\_id

column of the departments table';

COMMIT;