**Better view of SQL Tables:**

-CREATE TABLE PERSON(Personal\_ID VARCHAR2(10) NOT NULL,

Age NUMBER(3,0) NOT NULL,

First\_name VARCHAR2(15) NOT NULL,

Last\_name VARCHAR2(15) NOT NULL,

Gender VARCHAR2(1) NOT NULL,

Zip NUMBER(5,0) NOT NULL,

State VARCHAR2(2) NOT NULL,

City VARCHAR2(15) NOT NULL,

Address\_line1 VARCHAR2(100) NOT NULL,

Address\_line2 VARCHAR2(100),

Email VARCHAR2(50) NOT NULL,

PRIMARY KEY(Personal\_ID),

CHECK(Age between 16 and 65));

CREAT TABLE PHONE\_NUMBER(Personal\_ID VARCHAR2(10) NOT NULL,

Phone\_number(10) NOT NULL,

PRIMARY KEY(Personal\_ID, PHONE NUMBER),

FOREIGN KEY(Personal\_ID) REFERENCES PERSON(Personal\_ID));

-CREATE TABLE EMPLOYEE(Personal\_ID VARCHAR2(10) NOT NULL,

Rank VARCHAR2(15) NOT NULL,

Title VARCHAR2(15) NOT NULL,

Supervisor\_ID VARCHAR2(10),

PRIMARY KEY(Personal\_ID),

FOREIGN KEY(Personal\_ID) REFERENCES PERSON(Personal\_ID),

FOREIGN KEY(Supervisor\_ID) REFERENCES Department(Manager\_ID));

-CREATE TABLE POTENTIAL\_EMPLOYEE(Personal\_ID VARCHAR2(10) NOT NULL,

PRIMARY KEY(Personal\_ID),

FOREIGN KEY(Personal\_ID) REFERENCES PERSON(Personal\_ID));

-CREATE TABLE CUSTOMER(Personal\_ID VARCHAR2(10) NOT NULL,

PreferredSales\_ID VARCHAR2(10) NOT NULL,

PRIMARY KEY(Personal\_ID),

FOREIGN KEY(Personal\_ID) REFERENCES PERSON(Personal\_ID),

FOREIGN KEY(Preferred\_sales\_ID) REFERENCES EMPLOYEE(Personal\_ID));

-CREATE TABLE SALARY\_TRANSACTIONS(Transaction\_number NUMBER NOT NULL,

Personal\_ID VARCHAR2(10) NOT NULL,

Pay\_date DATE NOT NULL,

Amount NUMBER NOT NULL,

PRIMARY KEY(Personal\_ID, Transaction\_number),

CHECK(Transaction\_number between 1 and 999999),

CHECK(Amount between 1 and 999999999));

-CREATE TABLE DEPARTMENT(Department\_ID NUMBER(3,0) NOT NULL,

Manager\_ID VARCHAR2(10) NOT NULL,

Department\_name VARCHAR2(15) NOT NULL,

PRIMARY KEY(Department\_ID),

FOREIGN KEY(Manager\_ID) REFERENCES EMPLOYEE(Personal\_ID),

CHECK(Department\_ID between 100 and 999));

-CREATE TABLE SHIFT(Department\_ID NUMBER(3,0) NOT NULL,

Personal\_ID VARCHAR2(10) NOT NULL,

Start\_time TIMESTAMP NOT NULL,

End\_time TIMESTAMP NOT NULL,

PRIMARY KEY(Department\_ID, Personal\_ID, Start\_time),

FOREIGN KEY(Department\_ID) REFERENCES DEPARTMENT (Department\_ID),

CHECK(Department\_ID between 100 and 999));

-CREATE TABLE JOB\_POSITION(Department\_ID NUMBER(3,0) NOT NULL,

Job\_ID NUMBER NOT NULL,

Job\_description VARCHAR2(100) NOT NULL,

Posted\_date TIMESTAMP NOT NULL,

PRIMARY KEY(Job\_ID),

FOREIGN KEY(Department\_ID) REFERENCES DEPARTMENT (Department\_ID),

CHECK(Job\_ID between 1 and 9999999));

-CREATE TABLE APPLIES\_FOR(Personal\_ID VARCHAR2(10) NOT NULL,

Job\_ID NUMBER NOT NULL,

PRIMARY KEY(Personal\_ID, Job\_ID),

FOREIGN KEY(Personal\_ID) REFERENCES PERSON(Personal\_ID),

FOREIGN KEY(Job\_ID) REFERENCES JOB\_POSITION (Job\_ID),

CHECK(Job\_ID between 1 and 9999999));

-CREATE TABLE Interview(Interviewer\_ID VARCHAR2(10) NOT NULL,

Canidate\_ID VARCHAR2(10) NOT NULL,

Job\_ID NUMBER NOT NULL,

Time TIMESTAMP NOT NULL,

Round\_number NUMBER NOT NULL,

Score NUMBER NOT NULL,

PRIMARY KEY(Canidate\_id, Job\_ID, Round\_number),

FOREIGN KEY(Interviewer\_ID) REFERENCES EMPLOYEE(Personal\_ID),

FOREIGN KEY(Canidate\_ID) REFERENCES POTENTIAL\_EMPLOYEE (Personal\_ID),

FOREIGN KEY(Job\_ID) REFERENCES Job\_position (Job\_ID),

CHECK(Job\_ID between 1 and 9999999),

CHECK(Round\_number between 1 and 100));

-CREATE TABLE SITE\_WORKERS(Personal\_ID VARCHAR2(10) NOT NULL,

Site\_ID NUMBER NOT NULL,

PRIMARY KEY(Site\_ID, Personal\_ID),

FOREIGN KEY(Personal\_ID) REFERENCES EMPLOYEE(Personal\_ID),

FOREIGN KEY(Site\_ID) REFERENCES MARKETING\_SITE(Site\_ID),

CHECK(Site\_ID between 1 and 99999));

-CREATE TABLE MARKETING\_SITE(Site\_name VARCHAR2(15) NOT NULL,

Site\_ID NUMBER NOT NULL,

Site\_location VARCHAR2(30) NOT NULL,

Site\_state VARCHAR2(2) NOT NULL,

PRIMARY KEY(Site\_ID),

CHECK(Site\_ID between 1 and 99999));

-CREATE TABLE PRODUCT(Product\_id VARCHAR2(10) NOT NULL,

List\_price NUMBER NOT NULL,

Product\_name VARCHAR2(100) NOT NULL,

Weight NUMBER NOT NULL,

Product\_Style VARCHAR2(15) NOT NULL,

Product\_Size NUMBER NOT NULL,

Product\_type VARCHAR2(100) NOT NULL,

PRIMARY KEY(Product\_id),

CHECK(List\_price between 1 and 99999),

CHECK(Weight between 1 and 99999),

CHECK(Product\_Size between 1 and 99999));

-CREATE TABLE VENDOR(Vendor\_id VARCHAR2(10) NOT NULL,

Name VARCHAR2(15) NOT NULL,

Address\_line1 VARCHAR2(100) NOT NULL,

Address\_line2 VARCHAR2(100),

Zip NUMBER(5,0) NOT NULL,

State VARCHAR2(2) NOT NULL,

City VARCHAR2(15) NOT NULL,

Account\_number NUMBER NOT NULL,

Credit\_rating NUMBER NOT NULL,

PURCHASING\_WEB\_URL VARCHAR2(100) NOT NULL,

PRIMARY KEY(Vendor\_id),

CHECK(Account\_number between 1 and 99999),

CHECK(Credit\_rating between 1 and 99999));

-CREATE TABLE PART(Part\_id NUMBER NOT NULL,

Part\_name VARCHAR2(15) NOT NULL,

Weight NUMBER NOT NULL,

PRIMARY KEY(Part\_id),

CHECK(Part\_id between 1 and 99999),

CHECK(Weight between 1 and 99999));

CREATE TABLE SALES\_HISTORY(Site\_ID NUMBER NOT NULL,

Product\_id VARCHAR2(10) NOT NULL,

Employee\_ID VARCHAR2(10) NOT NULL,

Customer\_ID VARCHAR2(10) NOT NULL,

Sale\_time TIMESTAMP NOT NULL,

PRIMARY KEY(Site\_ID ,Product\_id, Employee\_ID, Customer\_ID, Sale\_time),

FOREIGN KEY(Site\_ID) REFERENCES MARKETING\_SITE(Site\_ID),

FOREIGN KEY(Product\_id) REFERENCES PRODUCT(Product\_id),

FOREIGN KEY(Employee\_ID) REFERENCES EMPLOYEE(Personal\_ID), FOREIGN KEY(Customer\_ID) REFERENCES CUSTOMER(Personal\_ID),

CHECK(Site\_ID between 1 and 99999));

-CREATE TABLE VENDOR\_SALES(Part\_id NUMBER NOT NULL,

Price NUMBER NOT NULL,

Vendor\_id VARCHAR2(10) NOT NULL,

PRIMARY KEY(Part\_id,Vendor\_id),

FOREIGN KEY(Part\_id) REFERENCES PART(Part\_id),

FOREIGN KEY(Vendor\_id) REFERENCES VENDOR(Vendor\_id),

CHECK(Part\_id between 1 and 99999),

CHECK(Price between 1 and 99999));

-CREATE TABLE PRODUCT\_PARTS(Product\_id VARCHAR2(10)NOT NULL,

Part\_id NUMBER NOT NULL,

Part\_count NUMBER NOT NULL,

PRIMARY KEY(Product\_id, Part\_id),

FOREIGN KEY(Part\_id) REFERENCES PART(Part\_id),

FOREIGN KEY(Product\_id) REFERENCES PRODUCT(Product\_id),

CHECK(Part\_id between 1 and 99999),

CHECK(Part\_count between 1 and 99999));