DROP TABLE O\_EMP cascade constraints;

DROP TABLE O\_DEPT cascade constraints;

DROP TABLE O\_BONUS cascade constraints;

DROP TABLE O\_SALGRADE cascade constraints;

DROP TABLE O\_ITEM cascade constraints;

DROP TABLE O\_PRICE cascade constraints;

DROP TABLE O\_PRODUCT cascade constraints;

DROP TABLE O\_ORD cascade constraints;

DROP TABLE O\_CUSTOMER cascade constraints;

DROP VIEW O\_SALES;

DROP SEQUENCE O\_ORDID ;

DROP SEQUENCE O\_CUSTID;

DROP SEQUENCE O\_PRODID;

CREATE TABLE O\_DEPT (

DEPTNO NUMBER(2) NOT NULL,

DNAME VARCHAR2(14),

LOC VARCHAR2(13),

CONSTRAINT O\_DEPT\_PRIMARY\_KEY PRIMARY KEY (DEPTNO));

INSERT INTO O\_DEPT VALUES (10,'ACCOUNTING','NEW YORK');

INSERT INTO O\_DEPT VALUES (20,'RESEARCH','DALLAS');

INSERT INTO O\_DEPT VALUES (30,'SALES','CHICAGO');

INSERT INTO O\_DEPT VALUES (40,'OPERATIONS','BOSTON');

CREATE TABLE O\_EMP (

EMPNO NUMBER(4) NOT NULL,

ENAME VARCHAR2(10),

JOB VARCHAR2(9),

MGR NUMBER(4) CONSTRAINT O\_EMP\_MGR\_FK REFERENCES O\_EMP (EMPNO),

HIREDATE DATE,

SAL NUMBER(7,2),

COMM NUMBER(7,2),

DEPTNO NUMBER(2) NOT NULL,

CONSTRAINT O\_EMP\_DEPTNO\_FK FOREIGN KEY (DEPTNO) REFERENCES O\_DEPT (DEPTNO),

CONSTRAINT O\_EMP\_EMPNO\_PK PRIMARY KEY (EMPNO));

INSERT INTO O\_EMP VALUES (7839,'KING','PRESIDENT',NULL,TO\_DATE('17-NOV-1981','DD-MON-YYYY'),5000,NULL,10);

INSERT INTO O\_EMP VALUES (7698,'BLAKE','MANAGER',7839,TO\_DATE('1-MAY-1981','DD-MON-YYYY'),2850,NULL,30);

INSERT INTO O\_EMP VALUES (7782,'CLARK','MANAGER',7839,TO\_DATE('9-JUN-1981','DD-MON-YYYY'),2450,NULL,10);

INSERT INTO O\_EMP VALUES (7566,'JONES','MANAGER',7839,TO\_DATE('2-APR-1981','DD-MON-YYYY'),2975,NULL,20);

INSERT INTO O\_EMP VALUES (7654,'MARTIN','SALESMAN',7698,TO\_DATE('28-SEP-1981','DD-MON-YYYY'),1250,1400,30);

INSERT INTO O\_EMP VALUES (7499,'ALLEN','SALESMAN',7698,TO\_DATE('20-FEB-1981','DD-MON-YYYY'),1600,300,30);

INSERT INTO O\_EMP VALUES (7844,'TURNER','SALESMAN',7698,TO\_DATE('8-SEP-1981','DD-MON-YYYY'),1500,0,30);

INSERT INTO O\_EMP VALUES (7900,'JAMES','CLERK',7698,TO\_DATE('3-DEC-1981','DD-MON-YYYY'),950,NULL,30);

INSERT INTO O\_EMP VALUES (7521,'WARD','SALESMAN',7698,TO\_DATE('22-FEB-1981','DD-MON-YYYY'),1250,500,30);

INSERT INTO O\_EMP VALUES (7902,'FORD','ANALYST',7566,TO\_DATE('3-DEC-1981','DD-MON-YYYY'),3000,NULL,20);

INSERT INTO O\_EMP VALUES (7369,'SMITH','CLERK',7902,TO\_DATE('17-DEC-1980','DD-MON-YYYY'),800,NULL,20);

INSERT INTO O\_EMP VALUES (7788,'SCOTT','ANALYST',7566,TO\_DATE('09-DEC-1982','DD-MON-YYYY'),3000,NULL,20);

INSERT INTO O\_EMP VALUES (7876,'ADAMS','CLERK',7788,TO\_DATE('12-JAN-1983','DD-MON-YYYY'),1100,NULL,20);

INSERT INTO O\_EMP VALUES (7934,'MILLER','CLERK',7782,TO\_DATE('23-JAN-1982','DD-MON-YYYY'),1300,NULL,10);

CREATE TABLE O\_BONUS (

ENAME VARCHAR2(10)references o\_emp(ename),

JOB VARCHAR2(9),

SAL NUMBER,

COMM NUMBER);

CREATE TABLE O\_SALGRADE (

GRADE NUMBER,

LOSAL NUMBER,

HISAL NUMBER);

INSERT INTO O\_SALGRADE VALUES (1,700,1200);

INSERT INTO O\_SALGRADE VALUES (2,1201,1400);

INSERT INTO O\_SALGRADE VALUES (3,1401,2000);

INSERT INTO O\_SALGRADE VALUES (4,2001,3000);

INSERT INTO O\_SALGRADE VALUES (5,3001,9999);

CREATE TABLE O\_CUSTOMER (

CUSTID NUMBER (6) NOT NULL,

NAME VARCHAR2 (45),

ADDRESS VARCHAR2 (40),

CITY VARCHAR2 (30),

STATE VARCHAR2 (2),

ZIP VARCHAR2 (9),

AREA NUMBER (3),

PHONE VARCHAR2 (9),

REPID NUMBER (4) NOT NULL references o\_emp(empno),

CREDITLIMIT NUMBER (9,2),

COMMENTS LONG,

CONSTRAINT O\_CUSTOMER\_CUSTID\_PK PRIMARY KEY (CUSTID),

CONSTRAINT O\_CUSTOMER\_CUSTID\_CK CHECK (CUSTID > 0));

CREATE TABLE O\_ORD (

ORDID NUMBER (4) NOT NULL,

ORDERDATE DATE,

COMMPLAN VARCHAR2 (1),

CUSTID NUMBER (6) NOT NULL,

SHIPDATE DATE,

TOTAL NUMBER (8,2) CONSTRAINT O\_ORD\_TOTAL\_CK CHECK (TOTAL >= 0),

CONSTRAINT O\_ORD\_CUSTID\_FK FOREIGN KEY (CUSTID) REFERENCES O\_CUSTOMER (CUSTID),

CONSTRAINT O\_ORD\_ORDID\_PK PRIMARY KEY (ORDID));

CREATE TABLE O\_PRODUCT (

PRODID NUMBER (6) CONSTRAINT O\_PRODID\_PK PRIMARY KEY,

DESCRIP VARCHAR2 (30));

CREATE TABLE O\_ITEM (

ORDID NUMBER (4) NOT NULL,

ITEMID NUMBER (4) NOT NULL,

PRODID NUMBER (6)references o\_product(prodid),

ACTUALPRICE NUMBER (8,2),

QTY NUMBER (8),

ITEMTOT NUMBER (8,2),

CONSTRAINT O\_ITEM\_ORDID\_FK FOREIGN KEY (ORDID) REFERENCES O\_ORD (ORDID),

CONSTRAINT O\_ITEM\_ORDID\_ITEMID\_PK PRIMARY KEY (ORDID,ITEMID));

CREATE TABLE O\_PRICE (

PRODID NUMBER (6) NOT NULL references o\_product(prodid),

STDPRICE NUMBER (8,2),

MINPRICE NUMBER (8,2),

STARTDATE DATE,

ENDDATE DATE);

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('96711', 'CA', '7844', '598-6609',

'JOCKSPORTS',

'100', '5000', 'BELMONT', '415', '345 VIEWRIDGE',

'Very friendly people to work with -- sales rep likes to be called Mike.');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('94061', 'CA', '7521', '368-1223',

'TKB SPORT SHOP',

'101', '10000', 'REDWOOD CITY', '415', '490 BOLI RD.',

'Rep called 5/8 about change in order - contact shipping.');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('95133', 'CA', '7654', '644-3341',

'VOLLYRITE',

'102', '7000', 'BURLINGAME', '415', '9722 HAMILTON',

'Company doing heavy promotion beginning 10/89. Prepare for large orders during

winter.');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('97544', 'CA', '7521', '677-9312',

'JUST TENNIS',

'103', '3000', 'BURLINGAME', '415', 'HILLVIEW MALL',

'Contact rep about new line of tennis rackets.');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('93301', 'CA', '7499', '996-2323',

'EVERY MOUNTAIN',

'104', '10000', 'CUPERTINO', '408', '574 SUYYYYY RD.',

'Customer with high market share (23%) due to aggressive advertising.');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('91003', 'CA', '7844', '376-9966',

'K + T SPORTS',

'105', '5000', 'SANTA CLARA', '408', '3476 EL PASEO',

'Tends to order large amounts of merchandise at once. Accounting is considering

raising their credit limit. Usually pays on time.');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('94301', 'CA', '7521', '364-9777',

'SHAPE UP',

'106', '6000', 'PALO ALTO', '415', '908 SEQUOIA',

'Support intensive. Orders small amounts (< 800) of merchandise at a time.');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('93301', 'CA', '7499', '967-4398',

'WOMENS SPORTS',

'107', '10000', 'SUNNYVALE', '408', 'VALCO VILLAGE',

'First sporting goods store geared exclusively towards women. Unusual promotion

al style and very willing to take chances towards new products!');

INSERT INTO O\_CUSTOMER (ZIP, STATE, REPID, PHONE, NAME, CUSTID, CREDITLIMIT,

CITY, AREA, ADDRESS, COMMENTS)

VALUES ('55649', 'MN', '7844', '566-9123',

'NORTH WOODS HEALTH AND FITNESS SUPPLY CENTER',

'108', '8000', 'HIBBING', '612', '98 LONE PINE WAY', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('101.4', TO\_DATE('08-JAN-1987','DD-MON-YYYY'), '610', TO\_DATE('07-JAN-1987','DD-MON-YYYY'), '101', 'A');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('45', TO\_DATE('11-JAN-1987','DD-MON-YYYY'), '611', TO\_DATE('11-JAN-1987','DD-MON-YYYY'), '102', 'B');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('5860', TO\_DATE('20-JAN-1987','DD-MON-YYYY'), '612', TO\_DATE('15-JAN-1987','DD-MON-YYYY'), '104', 'C');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('2.4', TO\_DATE('30-MAY-1986','DD-MON-YYYY'), '601', TO\_DATE('01-MAY-1986','DD-MON-YYYY'), '106', 'A');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('56', TO\_DATE('20-JUN-1986','DD-MON-YYYY'), '602', TO\_DATE('05-JUN-1986','DD-MON-YYYY'), '102', 'B');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('698', TO\_DATE('30-JUN-1986','DD-MON-YYYY'), '604', TO\_DATE('15-JUN-1986','DD-MON-YYYY'), '106', 'A');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('8324',TO\_DATE( '30-JUL-1986','DD-MON-YYYY'), '605', TO\_DATE('14-JUL-1986','DD-MON-YYYY'), '106', 'A');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('3.4', TO\_DATE('30-JUL-1986','DD-MON-YYYY'), '606', TO\_DATE('14-JUL-1986','DD-MON-YYYY'), '100', 'A');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('97.5', TO\_DATE('15-AUG-1986','DD-MON-YYYY'), '609', TO\_DATE('01-AUG-1986','DD-MON-YYYY'), '100', 'B');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('5.6', TO\_DATE('18-JUL-1986','DD-MON-YYYY'), '607', TO\_DATE('18-JUL-1986','DD-MON-YYYY'), '104', 'C');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('35.2', TO\_DATE('25-JUL-1986','DD-MON-YYYY'), '608', TO\_DATE('25-JUL-1986','DD-MON-YYYY'), '104', 'C');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('224', TO\_DATE('05-JUN-1986','DD-MON-YYYY'), '603', TO\_DATE('05-JUN-1986','DD-MON-YYYY'), '102', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('4450', TO\_DATE('12-MAR-1987','DD-MON-YYYY'), '620', TO\_DATE('12-MAR-1987','DD-MON-YYYY'), '100', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('6400', TO\_DATE('01-FEB-1987','DD-MON-YYYY'), '613', TO\_DATE('01-FEB-1987','DD-MON-YYYY'), '108', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('23940', TO\_DATE('05-FEB-1987','DD-MON-YYYY'), '614', TO\_DATE('01-FEB-1987','DD-MON-YYYY'), '102', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('764', TO\_DATE('10-FEB-1987','DD-MON-YYYY'), '616', TO\_DATE('03-FEB-1987','DD-MON-YYYY'), '103', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('1260', TO\_DATE('04-FEB-1987','DD-MON-YYYY'), '619', TO\_DATE('22-FEB-1987','DD-MON-YYYY'), '104', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('46370', TO\_DATE('03-MAR-1987','DD-MON-YYYY'), '617', TO\_DATE('05-FEB-1987','DD-MON-YYYY'), '105', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('710', TO\_DATE('06-FEB-1987','DD-MON-YYYY'), '615', TO\_DATE('01-FEB-1987','DD-MON-YYYY'), '107', '');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('3510.5', TO\_DATE('06-MAR-1987','DD-MON-YYYY'), '618', TO\_DATE('15-FEB-1987','DD-MON-YYYY'), '102', 'A');

INSERT INTO O\_ORD (TOTAL, SHIPDATE, ORDID, ORDERDATE, CUSTID, COMMPLAN)

VALUES ('730', TO\_DATE('01-JAN-1987','DD-MON-YYYY'), '621', TO\_DATE('15-MAR-1987','DD-MON-YYYY'), '100', 'A');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('100860', 'ACE TENNIS RACKET I');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('100861', 'ACE TENNIS RACKET II');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('100870', 'ACE TENNIS BALLS-3 PACK');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('100871', 'ACE TENNIS BALLS-6 PACK');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('100890', 'ACE TENNIS NET');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('101860', 'SP TENNIS RACKET');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('101863', 'SP JUNIOR RACKET');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('102130', 'RH: "GUIDE TO TENNIS"');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('200376', 'SB ENERGY BAR-6 PACK');

INSERT INTO O\_PRODUCT (PRODID, DESCRIP)

VALUES ('200380', 'SB VITA SNACK-6 PACK');

INSERT INTO O\_ITEM (QTY, PRODID, ORDID, ITEMTOT, ITEMID, ACTUALPRICE)

VALUES ('1', '100890', '610', '58', '3', '58');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '1', '100861', '611', '45', '1', '45');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '100', '100860', '612', '3000', '1', '30');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '1', '200376', '601', '2.4', '1', '2.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '20', '100870', '602', '56', '1', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '3', '100890', '604', '174', '1', '58');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '2', '100861', '604', '84', '2', '42');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '10', '100860', '604', '440', '3', '44');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '4', '100860', '603', '224', '2', '56');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '1', '100860', '610', '35', '1', '35');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '3', '100870', '610', '8.4', '2', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '200', '200376', '613', '440', '4', '2.2');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '444', '100860', '614', '15540', '1', '35');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '1000', '100870', '614', '2800', '2', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '20', '100861', '612', '810', '2', '40.5');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('150', '101863', '612', '1500', '3', '10');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('10', '100860', '620', '350', '1', '35');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('1000', '200376', '620', '2400', '2', '2.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('500', '102130', '620', '1700', '3', '3.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ( '100', '100871', '613', '560', '1', '5.6');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('200', '101860', '613', '4800', '2', '24');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('150', '200380', '613', '600', '3', '4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '102130', '619', '340', '3', '3.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('50', '100860', '617', '1750', '1', '35');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '100861', '617', '4500', '2', '45');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('1000', '100871', '614', '5600', '3', '5.6');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('10', '100861', '616', '450', '1', '45');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('50', '100870', '616', '140', '2', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('2', '100890', '616', '116', '3', '58');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('10', '102130', '616', '34', '4', '3.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('10', '200376' , '616', '24', '5', '2.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '200380', '619', '400', '1', '4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '200376', '619', '240', '2', '2.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('4', '100861', '615', '180', '1', '45');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('1', '100871', '607', '5.6', '1', '5.6');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '100870', '615', '280', '2', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('500', '100870', '617', '1400', '3', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('500', '100871', '617', '2800', '4', '5.6');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('500', '100890', '617', '29000', '5', '58');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '101860', '617', '2400', '6', '24');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('200', '101863', '617', '2500', '7', '12.5');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '102130', '617', '340', '8', '3.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('200', '200376', '617', '480', '9', '2.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('300', '200380', '617', '1200', '10', '4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('5', '100870', '609', '12.5', '2', '2.5');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('1', '100890', '609', '50', '3', '50');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('23', '100860', '618', '805', '1', '35');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('50', '100861', '618', '2255.5', '2', '45.11');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('10', '100870', '618', '450', '3', '45');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('10', '100861', '621', '450', '1', '45');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '100870', '621', '280', '2', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('50', '100871', '615', '250', '3', '5');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('1', '101860', '608', '24', '1', '24');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('2', '100871', '608', '11.2', '2', '5.6');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('1', '100861', '609', '35', '1', '35');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('1', '102130', '606', '3.4', '1', '3.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '100861', '605', '4500', '1', '45');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('500', '100870', '605', '1400', '2', '2.8');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('5', '100890', '605', '290', '3', '58');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('50', '101860', '605', '1200', '4', '24');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '101863', '605', '900', '5', '9');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('10', '102130', '605', '34', '6', '3.4');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('100', '100871', '612', '550', '4', '5.5');

INSERT INTO O\_ITEM ( QTY , PRODID , ORDID , ITEMTOT , ITEMID , ACTUALPRICE)

VALUES ('50', '100871', '619', '280', '4', '5.6');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('48', TO\_DATE('01-JAN-1985','DD-MON-YYYY'), '100871', '3.2', TO\_DATE('01-DEC-1985','DD-MON-YYYY'));

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('58', TO\_DATE('01-JAN-1985','DD-MON-YYYY'), '100890', '46.4', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('54', TO\_DATE('01-JUN-1984','DD-MON-YYYY'), '100890', '40.5', TO\_DATE('31-MAY-1984','DD-MON-YYYY'));

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('35', TO\_DATE('01-JUN-1986','DD-MON-YYYY'), '100860', '28', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('32', TO\_DATE('01-JAN-1986','DD-MON-YYYY'), '100860', '25.6', TO\_DATE('31-MAY-1986','DD-MON-YYYY'));

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('30', TO\_DATE('01-JAN-1985','DD-MON-YYYY'), '100860', '24', TO\_DATE('31-DEC-1985','DD-MON-YYYY'));

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('45', TO\_DATE('01-JUN-1986','DD-MON-YYYY'), '100861', '36', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('42', TO\_DATE('01-JAN-1986','DD-MON-YYYY'), '100861', '33.6', TO\_DATE('31-MAY-1986','DD-MON-YYYY'));

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('39', TO\_DATE('01-JAN-1985','DD-MON-YYYY'), '100861', '31.2', TO\_DATE('31-DEC-1985','DD-MON-YYYY'));

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('2.8', TO\_DATE('01-JAN-1986','DD-MON-YYYY'), '100870', '2.4', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('2.4', TO\_DATE('01-JAN-1985','DD-MON-YYYY'), '100870', '1.9', TO\_DATE('01-DEC-1985','DD-MON-YYYY'));

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('5.6', TO\_DATE('01-JAN-1986','DD-MON-YYYY'), '100871', '4.8', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('24', TO\_DATE('15-FEB-1985','DD-MON-YYYY'), '101860', '18', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('12.5', TO\_DATE('15-FEB-1985','DD-MON-YYYY'), '101863', '9.4', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('3.4',TO\_DATE( '18-AUG-1985','DD-MON-YYYY'), '102130', '2.8', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('2.4', TO\_DATE('15-NOV-1986','DD-MON-YYYY'), '200376', '1.75', '');

INSERT INTO O\_PRICE (STDPRICE, STARTDATE, PRODID, MINPRICE, ENDDATE)

VALUES ('4', TO\_DATE('15-NOV-1986','DD-MON-YYYY'), '200380', '3.2', '');

CREATE INDEX O\_PRICE\_INDEX ON O\_PRICE(PRODID, STARTDATE);

CREATE SEQUENCE O\_ORDID

INCREMENT BY 1

START WITH 622

NOCACHE;

CREATE SEQUENCE O\_PRODID

INCREMENT BY 1

START WITH 200381

NOCACHE;

CREATE SEQUENCE O\_CUSTID

INCREMENT BY 1

START WITH 109

NOCACHE;

CREATE VIEW O\_SALES AS

SELECT REPID, O\_ORD.CUSTID, O\_CUSTOMER.NAME CUSTNAME, O\_PRODUCT.PRODID,

DESCRIP PRODNAME, SUM(ITEMTOT) AMOUNT

FROM O\_ORD, O\_ITEM, O\_CUSTOMER, O\_PRODUCT

WHERE O\_ORD.ORDID = O\_ITEM.ORDID

AND O\_ORD.CUSTID = O\_CUSTOMER.CUSTID

AND O\_ITEM.PRODID = O\_PRODUCT.PRODID

GROUP BY REPID, O\_ORD.CUSTID, NAME, O\_PRODUCT.PRODID, DESCRIP;

/

commit;

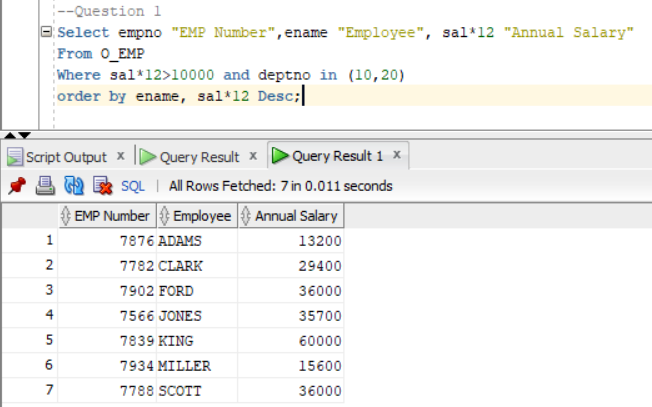
--Question 1

Select empno "EMP Number",ename "Employee", sal\*12 "Annual Salary"

From O\_EMP

Where sal\*12>10000 and deptno in (10,20)

order by ename, sal\*12 Desc;



-- Question 2

-- Creating O\_SALES view

CREATE VIEW O\_SALES AS

SELECT C.NAME AS CUSTOMER, O.ORDID, O.ORDDATE, P.DESCRIPT AS PRODUCT, I.QTY, I.ACTPRICE

FROM O\_CUSTOMER C, O\_ORD O, O\_ITEM I, O\_PRODUCT P

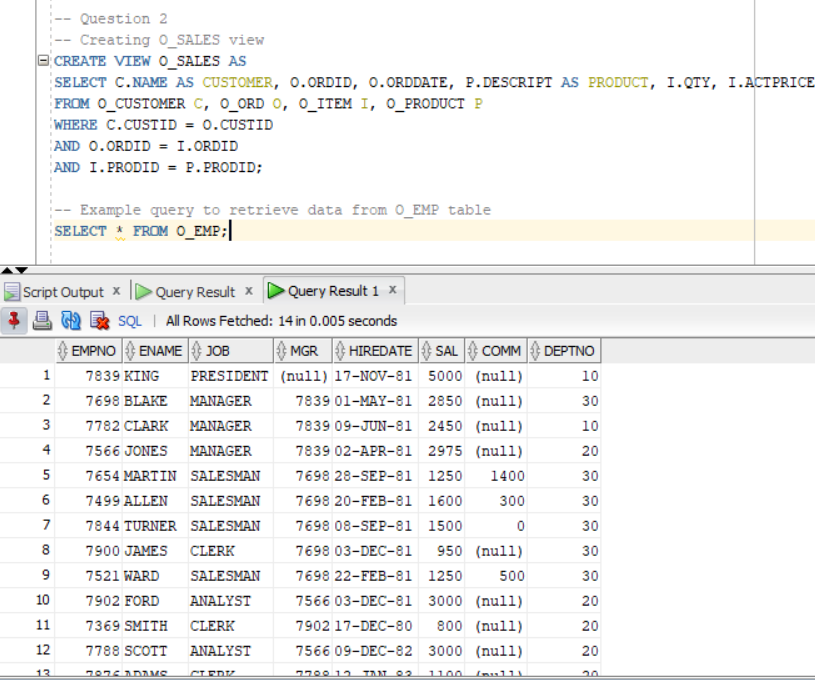
WHERE C.CUSTID = O.CUSTID

AND O.ORDID = I.ORDID

AND I.PRODID = P.PRODID;

-- Example query to retrieve data from O\_EMP table

SELECT \* FROM O\_EMP;



-- Question 3

SELECT

EMPNO AS "Employee Number",

ENAME AS "Employee Name",

JOB AS "Job Description",

EXTRACT(YEAR FROM HIREDATE) AS "Year of Employment",

EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM HIREDATE) AS "Years Employed",

DNAME AS "Department Name"

FROM

O\_EMP e

JOIN

O\_DEPT d ON e.DEPTNO = d.DEPTNO

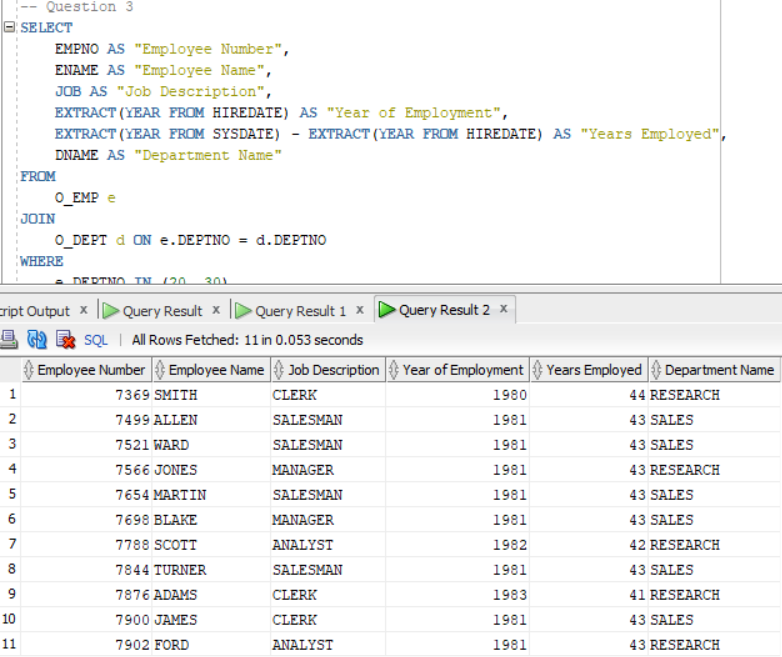
WHERE

e.DEPTNO IN (20, 30)

AND EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM HIREDATE) > 29

ORDER BY

EMPNO;



-- Question 4

-- Assuming job\_description is entered as a placeholder:

VARIABLE job\_description VARCHAR2(20);

EXEC :job\_description := 'manager';

SELECT

e.EMPNO AS "Employee Number",

e.ENAME AS "Employee Name",

e.JOB AS "Job Description",

e.DEPTNO AS "Department Number",

d.DNAME AS "Department Name",

d.LOC AS "Location"

FROM

O\_EMP e

JOIN

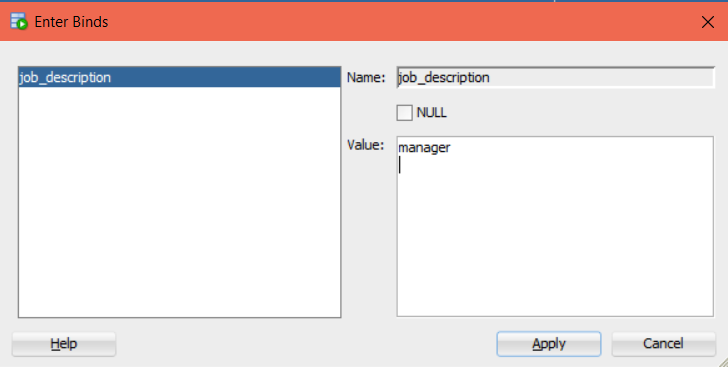
O\_DEPT d ON e.DEPTNO = d.DEPTNO

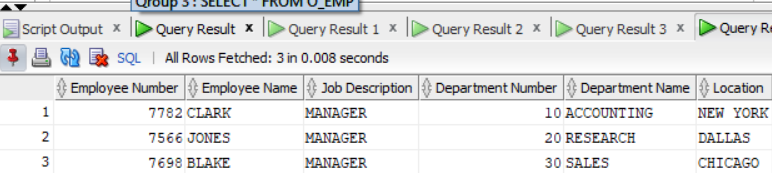
WHERE

UPPER(e.JOB) = UPPER(:job\_description)

ORDER BY

e.DEPTNO, e.ENAME;





-- Question 5

UPDATE O\_EMP

SET SAL = SAL \* 3

WHERE DEPTNO = 30;

SELECT INITCAP(ename) || ' earns ' || TO\_CHAR(sal, 'fm$99,999.00')

FROM O\_EMP;

SELECT e.empno,

INITCAP(e.ename) AS name,

INITCAP(e.job) AS job,

INITCAP(d.dname) AS department\_name,

INITCAP(d.loc) AS location

FROM O\_EMP e

JOIN O\_DEPT d ON e.deptno = d.deptno

WHERE e.sal < 0.2 \* (SELECT sal

FROM O\_EMP

WHERE INITCAP(job) = 'President');



-- Question 7

-- Define the monthly commission and total columns

COLUMN monthly\_comm FORMAT $999,999.00

COLUMN total FORMAT $999,999.00

-- Suppress feedback messages

SET FEEDBACK OFF

SET PAGESIZE 30

-- Prompt user to enter the department number

ACCEPT deptno PROMPT 'Enter value for deptno: '

-- SQL query to generate the report

SELECT e.empno AS "Employee Number",

INITCAP(e.ename) AS "Name",

INITCAP(e.job) AS "Job",

INITCAP(d.dname) AS "Department Name",

INITCAP(d.loc) AS "Location",

e.comm AS "Monthly Commission",

e.sal + NVL(e.comm, 0) AS "Total"

FROM O\_EMP e

JOIN O\_DEPT d ON e.deptno = d.deptno

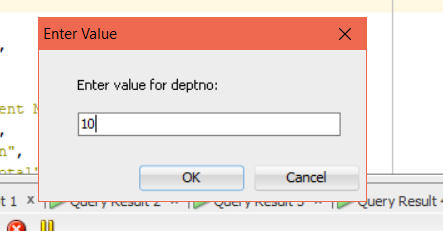
WHERE e.deptno = &deptno

ORDER BY e.empno;

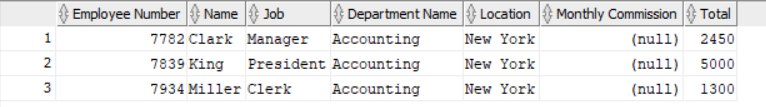
-- Enable feedback messages again (optional, for further use)

SET FEEDBACK ON

The user is prompted to enter the Department Number:



Output after entering the value:



-- Question 8.1

-- Create the TRUCK table with the appropriate data types

CREATE TABLE TRUCK (

TRUCKNO NUMBER(8) NOT NULL,

CODE NUMBER(5),

MILES NUMBER(10,1),

BUYDATE DATE,

PRICE VARCHAR2(15),

SNO VARCHAR2(20)

);

-- Insert the provided data into the TRUCK table

INSERT INTO TRUCK (TRUCKNO, CODE, MILES, BUYDATE, PRICE, SNO)

VALUES (1001, 1, 32123.5, TO\_DATE('11-AUG-94', 'DD-MON-YY'), 'R109,999.99', 'AA-322-12212-W11');

INSERT INTO TRUCK (TRUCKNO, CODE, MILES, BUYDATE, PRICE, SNO)

VALUES (1002, 1, 76984.3, TO\_DATE('23-MAR-92', 'DD-MON-YY'), 'R299,000.99', 'AC-342-22134-Q23');

INSERT INTO TRUCK (TRUCKNO, CODE, MILES, BUYDATE, PRICE, SNO)

VALUES (1003, 2, 12346.6, TO\_DATE('14-DEC-95', 'DD-MON-YY'), 'R189,500.99', 'AC-445-78654-Z94');

INSERT INTO TRUCK (TRUCKNO, CODE, MILES, BUYDATE, PRICE, SNO)

VALUES (1002, NULL, 76984.3, TO\_DATE('23-MAR-92', 'DD-MON-YY'), 'R299,000.99', 'AC-342-22134-Q23');

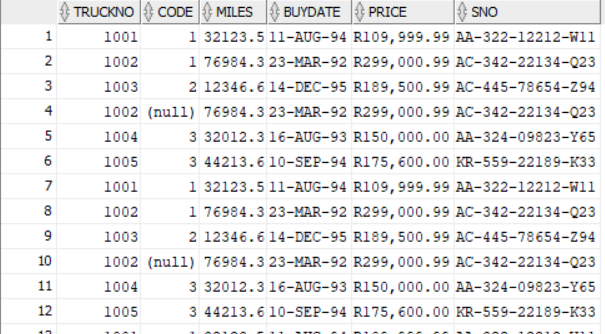
INSERT INTO TRUCK (TRUCKNO, CODE, MILES, BUYDATE, PRICE, SNO)

VALUES (1004, 3, 32012.3, TO\_DATE('16-AUG-93', 'DD-MON-YY'), 'R150,000.00', 'AA-324-09823-Y65');

INSERT INTO TRUCK (TRUCKNO, CODE, MILES, BUYDATE, PRICE, SNO)

VALUES (1005, 3, 44213.6, TO\_DATE('10-SEP-94', 'DD-MON-YY'), 'R175,600.00', 'KR-559-22189-K33');

Select \* from TRUCK



-- Question 8.2

-- Create the CAR\_INFO table with the appropriate data types

CREATE TABLE CAR\_INFO (

SNO VARCHAR2(20) NOT NULL,

MAKE VARCHAR2(20),

MODEL VARCHAR2(20),

REGNO VARCHAR2(15),

COLOUR VARCHAR2(10)

);

-- Insert the provided data into the CAR\_INFO table

INSERT INTO CAR\_INFO (SNO, MAKE, MODEL, REGNO, COLOUR)

VALUES ('AA-322-12212-W11', 'RENAULT', 'PNS600', 'FMT 276 GP', 'RED');

INSERT INTO CAR\_INFO (SNO, MAKE, MODEL, REGNO, COLOUR)

VALUES ('AC-342-22134-Q23', 'MERCEDES', 'T100', 'SZX 067 L', 'WHITE');

INSERT INTO CAR\_INFO (SNO, MAKE, MODEL, REGNO, COLOUR)

VALUES ('AC-445-78654-Z94', 'TOYOTA', 'DYNA S3', 'THU 118 MP', 'RED');

INSERT INTO CAR\_INFO (SNO, MAKE, MODEL, REGNO, COLOUR)

VALUES ('KR-559-22189-K33', 'TOYOTA', 'CONV', 'DWR 286 NW', 'SILVER');

INSERT INTO CAR\_INFO (SNO, MAKE, MODEL, REGNO, COLOUR)

VALUES ('AA-324-09823-Y65', 'MERCEDES', 'TS800', 'PZV 296 GP', 'SILVER');

INSERT INTO CAR\_INFO (SNO, MAKE, MODEL, REGNO, COLOUR)

VALUES ('FR-998-32245-W12', 'DAIHATSU', 'J3', 'CA 135567', 'WHITE');

INSERT INTO CAR\_INFO (SNO, MAKE, MODEL, REGNO, COLOUR)

VALUES ('DE-887-98456-E94', 'IVECO', 'TTK100S', 'TP 23469', 'RED');

Select \* from CAR\_INFO

-- Question 10.1

ALTER TABLE TRUCK MODIFY PRICE NUMBER(10,2);

Select \* from TRUCK

-- Question 10.2

ALTER TABLE TRUCK ADD remark VARCHAR2(20);

UPDATE TRUCK

SET remark = 'NOT FOR SCRAPPING'

WHERE MILES <= 45000;

Select \* from TRUCK

-- Question 10.3

DELETE FROM TRUCK

WHERE TRUCKNO = 1002 AND SNO IS NULL;

Select \* from TRUCK

-- 11.1 Set primary keys

ALTER TABLE TRUCK ADD CONSTRAINT PK\_TRUCK PRIMARY KEY (TRUCKNO, SNO);

ALTER TABLE CAR\_INFO ADD CONSTRAINT PK\_CAR\_INFO PRIMARY KEY (SNO);

-- 11.2 Ensure columns are not null

ALTER TABLE TRUCK MODIFY TRUCKNO NUMBER(8);

ALTER TABLE TRUCK MODIFY SNO VARCHAR2(20);

ALTER TABLE CAR\_INFO MODIFY SNO VARCHAR2(20);

-- 11.3 Add constraints for valid values

-- Add the check constraint after cleaning up data

ALTER TABLE CAR\_INFO ADD CONSTRAINT CHK\_CAR\_COLOR CHECK (COLOUR IN ('GOLD', 'SILVER', 'WHITE'));

-- Find existing constraints on the TRUCK table

SELECT CONSTRAINT\_NAME FROM USER\_CONSTRAINTS WHERE TABLE\_NAME = 'TRUCK';

-- Add a new constraint with a unique name

ALTER TABLE TRUCK ADD CONSTRAINT CHK\_TRUCK\_CODE\_NEW CHECK (CODE IN (1, 2, 3));

-- 11.4 Add foreign key constraint

ALTER TABLE TRUCK ADD CONSTRAINT FK\_TRUCK\_SNO FOREIGN KEY (SNO) REFERENCES CAR\_INFO (SNO);

-- 12.1 Create the sequence

CREATE SEQUENCE truck\_seq

START WITH 1006

INCREMENT BY 1

MAXVALUE 9999

NOCYCLE

CACHE 20;

-- 12.2 Insert new truck information using the sequence

INSERT INTO TRUCK (TRUCKNO, CODE, MILES, BUYDATE, PRICE, SNO)

VALUES (truck\_seq.NEXTVAL, 2, 93245.9, TO\_DATE('27-DEC-1995', 'DD-MON-YYYY'), 269000.00, 'FR-998-32245-W12');

-- 12.3 Create a synonym for the sequence

CREATE SYNONYM tk FOR truck\_seq;

-- 13.1 Remove all code 3 information from the TRUCK table

DELETE FROM TRUCK WHERE CODE = 3;

-- 13.2 Remove the TRUCK table from the system

DROP TABLE TRUCK;

-- 13.3

DROP TABLE truck\_fin;

-- If truck\_fin is a synonym

-- DROP SYNONYM truck\_fin;

-- 13.4

DROP TABLE newtruck;

-- If newtruck is a synonym

-- DROP SYNONYM newtruck;

-- 14.1

DROP SEQUENCE truck\_seq;

-- 14.2 Remove the database object created in 12c (tk)

DROP SYNONYM tk;