**INSY 5335 Project**

**Office Supplies Inc.**

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Office Supplies Inc. (OSI) sales office supplies to institutional buyers. It's sales representatives use the attached form to take orders. Customer account numbers on the form are unique. Customers have only one billing address. Each customer also has a designated contact person who is responsible for bill payment. The billing address and the contact person information are filled out when a new customer account is created or when there is a change of address or contact person of an existing customer. OSI offers free delivery service to its customers. Usually all deliveries are made within two business days of the order date. If a customer decides to use OSI’s delivery service then the delivery address is filled in the order form. Sometimes a customer may not use the delivery service if he/she needs the supplies immediately. In such a case, the customer is responsible for picking up the order from OSI’s warehouse. All items in an order are delivered to the same address. OSI owns several trucks for delivering customer orders. Trucks have a vehicle number, license plate number, license expiration date, and inspection expiration date. The same driver is always assigned to the same truck.

OSI maintains information on items it sales. Each item type is identified by an item code and has a unit price. OSI also keeps a record of the number of units of each item type available for sale. OSI employs several employees. Each employee has a social security number, name, address, and phone number. Drivers are a type of employee. In addition to employee information, each driver also has a driver’s license number and a license expiration date. Sales reps are also a type of employee. Sales reps have a salary and commission. All other employees have only a salary.

OSI wants to create an information system to manage its operational data. OSI management has hired you as consultants for this project.

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SQL> create table order(

2

SQL> create table orders(

2 order\_id number(8) primary key,

3 cid number(8) references sxe3130.customer(cid),

4 eid number(8) references wxs5823.employee(eid),

5 truck\_no varchar2(10) references hxs2723.truck(truck\_no),

6 order\_date date,

7 del\_type varchar2(15),

8 del\_date date,

9 del\_address varchar(15));

cid number(8) references sxe3130.customer(cid),

\*

ERROR at line 3:

ORA-00942: table or view does not exist

SQL> select\*from sxe3130.customer;

select\*from sxe3130.customer

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> select \* from sxe3130.customer;

no rows selected

SQL> create table orders(

2 order\_id number(8) primary key,

3 cid number(8) references sxe3130.customer(cid),

4 eid number(8) references wxs5823.employee(eid),

5 truck\_no varchar2(10) references hxs2723.truck(truck\_no),

6 order\_date date,

7 del\_type varchar2(15),

8 del\_date date,

9 del\_address varchar(15));

Table created.

SQL> select \* from kxs1446.driver;

no rows selected

SQL> select \* from wxs5823.employee;

EID FNAME LNAME SALARY SSN CITY

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ZIP STREET CONTACT\_NUMBER

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10000101 John Wick 100200 2000010100 Irving

75063 8830 saddlehorn 2019328100

10000102 Michael Scott 100400 2000010102 Arlington

76010 805 street 2015678900

10000103 John Sheldon 200000 1003423983 Plano

73014 313 Woodridge 678342916

EID FNAME LNAME SALARY SSN CITY

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ZIP STREET CONTACT\_NUMBER

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10000104 Ashley Jackson 500000 2000010113 Arlington

76013 1001 Benge Dr 8063769140

10000105 Rhonda Singh 200000 2000010124 Arlington

76012 1008 McDavis St 6821173089

SQL> insert into driver values(10000103,'50012365','02-MAY-2024','NYP 1546');

insert into driver values(10000103,'50012365','02-MAY-2024','NYP 1546')

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> insert into kxs1446.driver values(10000103,'50012365','02-MAY-2024','NYP 1546');

1 row created.

SQL> grant all on kxs1446.driver where in(kxs1446,sxe3130,hxs2723,wxs5823);

grant all on kxs1446.driver where in(kxs1446,sxe3130,hxs2723,wxs5823)

\*

ERROR at line 1:

ORA-00990: missing or invalid privilege

SQL> grant all on kxs1446.driver to kxs1446,sxe3130,hxs2723,wxs5823;

grant all on kxs1446.driver to kxs1446,sxe3130,hxs2723,wxs5823

\*

ERROR at line 1:

ORA-01929: no privileges to GRANT

SQL> select \* from kxs1446.driver;

EID LICENSE\_NO LICENSE\_E TRUCK\_NO

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10000103 50012365 02-MAY-24 NYP 1546

10000101 50012345 02-MAY-24 TXS 3081

10000104 50012355 03-JUN-24 TXS 2270

SQL> select\* from kxs1446.sales\_rep;

no rows selected

SQL> select \* from kxs1446.sales\_rep;

EID COMMISSION

---------- ----------

10000102 2000

10000105 1000

SQL> desc sxe3130.customer;

Name Null? Type

----------------------------------------- -------- ----------------------------

CID NOT NULL NUMBER(8)

STREET VARCHAR2(10)

CITY VARCHAR2(10)

ZIP VARCHAR2(10)

CONTACT\_PERSON VARCHAR2(15)

PHONE\_NUMBER NUMBER(38)

SQL> desc sxe3130.customer;

Name Null? Type

----------------------------------------- -------- ----------------------------

CID NOT NULL NUMBER(8)

STREET VARCHAR2(10)

CITY VARCHAR2(10)

ZIP NUMBER(38)

CONTACT\_PERSON VARCHAR2(15)

PHONE\_NUMBER NUMBER(38)

SQL> desc sxe3130.customer;

Name Null? Type

----------------------------------------- -------- ----------------------------

CID NOT NULL NUMBER(8)

STREET VARCHAR2(10)

CITY VARCHAR2(10)

ZIP NUMBER(7)

CONTACT\_PERSON VARCHAR2(15)

PHONE\_NUMBER NUMBER(10)

SQL> select \* from sxe3130.customer;

SP2-0734: unknown command beginning "inselect \*..." - rest of line ignored.

SQL> desc sxe3130.customer;

Name Null? Type

----------------------------------------- -------- ----------------------------

CID NOT NULL NUMBER(8)

STREET VARCHAR2(10)

CITY VARCHAR2(10)

ZIP NUMBER(7)

CONTACT\_PERSON VARCHAR2(15)

PHONE\_NUMBER NUMBER(10)

CUST\_NAME VARCHAR2(10)

SQL> desc sxe3130.customer;

Name Null? Type

----------------------------------------- -------- ----------------------------

CID NOT NULL NUMBER(8)

STREET VARCHAR2(10)

CITY VARCHAR2(10)

ZIP NUMBER(7)

CONTACT\_PERSON VARCHAR2(15)

PHONE\_NUMBER NUMBER(10)

COMPANY\_NAME VARCHAR2(10)

SQL> insert into sxe3130.customer values(7103,'23 bowen st', 'arlington',76310,'Mike jackson',6459327612,'MNGC');

insert into sxe3130.customer values(7103,'23 bowen st', 'arlington',76310,'Mike jackson',6459327612,'MNGC')

\*

ERROR at line 1:

ORA-12899: value too large for column "SXE3130"."CUSTOMER"."STREET" (actual:

11, maximum: 10)

SQL> insert into sxe3130.customer values(7103,'23 Bowen','arlington',76310,'Mike jackson',6459327612,'MNGC');

1 row created.

SQL> grant all on sxe3130.customer to kxs1446,sxe3130,hxs2723,wxs5823;

grant all on sxe3130.customer to kxs1446,sxe3130,hxs2723,wxs5823

\*

ERROR at line 1:

ORA-01929: no privileges to GRANT

SQL> select \* from sxe3130.customer;

CID STREET CITY ZIP CONTACT\_PERSON PHONE\_NUMBER

---------- ---------- ---------- ---------- --------------- ------------

COMPANY\_NA

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7103 23 Bowen arlington 76310 Mike jackson 6459327612

MNGC

7101 2130AVENUE ARLINGTON 71010 JAMES 2019875699

WASSAM

7100 901 Arc Dr Arlington 76015 Mohammad Rafi 2104463733

Tooba Inc

SQL> select \* from sxe3130.customer;

CID STREET CITY ZIP CONTACT\_PERSON PHONE\_NUMBER

---------- ---------- ---------- ---------- --------------- ------------

COMPANY\_NA

----------

7103 23 Bowen arlington 76310 Mike jackson 6459327612

MNGC

7102 805 street Arlington 76010 David Jones 123456789

SHAN

7101 2130AVENUE ARLINGTON 71010 JAMES 2019875699

WASSAM

CID STREET CITY ZIP CONTACT\_PERSON PHONE\_NUMBER

---------- ---------- ---------- ---------- --------------- ------------

COMPANY\_NA

----------

7100 901 Arc Dr Arlington 76015 Mohammad Rafi 2104463733

Tooba Inc

**SQL> desc orders;**

**Name Null? Type**

**----------------------------------------- -------- ----------------------------**

**ORDER\_ID NOT NULL NUMBER(8)**

**CID NUMBER(8)**

**EID NUMBER(8)**

**TRUCK\_NO VARCHAR2(10)**

**ORDER\_DATE DATE**

**DEL\_TYPE VARCHAR2(15)**

**DEL\_DATE DATE**

**DEL\_ADDRESS VARCHAR2(15)**

**SQL> alter table orders modify del\_address varchar2(30);**

**alter table orders modify del\_address varchar2(30)**

**\***

**ERROR at line 1:**

**ORA-00054: resource busy and acquire with NOWAIT specified or timeout expired**

**SQL> alter table orders modify del\_address varchar2(30) disable table lock;**

**alter table orders modify del\_address varchar2(30) disable table lock**

**\***

**ERROR at line 1:**

**ORA-00069: cannot acquire lock -- table locks disabled for ORDERS**

**SQL> insert into orders values(41003,7103,10000102,'NYP 1546', '05-MAY-2023','Dropoff','10-MAY-2023','23 Bowen arlington 76310');**

**ERROR:**

**ORA-01756: quoted string not properly terminated**

**SQL> desc sxe3130.item;**

**Name Null? Type**

**----------------------------------------- -------- ----------------------------**

**ITEM\_CODE NOT NULL NUMBER(10)**

**ITEM\_NAME VARCHAR2(15)**

**ITEM\_PRICE NOT NULL NUMBER(6,2)**

**QTY\_AVAILABLE NOT NULL NUMBER(4)**

**SQL> select \* from sxe3130.item;**

**no rows selected**

**SQL> select \* from orders;**

**ORDER\_ID CID EID TRUCK\_NO ORDER\_DAT DEL\_TYPE DEL\_DATE**

**---------- ---------- ---------- ---------- --------- --------------- ---------**

**DEL\_ADDRESS**

**------------------------------**

**41004 7100 10000105 TXS 2270 02-MAY-23 Drop Off 15-MAY-23**

**991 Chen Dr Plano TX 76017**

**41002 7102 10000102 TXS 3081 05-MAY-23 DROP OFF 14-MAY-23**

**805 STREET**

**41001 7102 10000102 TXS 3081 05-MAY-23 Drop Off 14-MAY-23**

**805 STREET ARLINGTON**

**ORDER\_ID CID EID TRUCK\_NO ORDER\_DAT DEL\_TYPE DEL\_DATE**

**---------- ---------- ---------- ---------- --------- --------------- ---------**

**DEL\_ADDRESS**

**------------------------------**

**41003 7101 10000102 03-MAY-23 PICKUP 07-MAY-23**

**8831 SADDLE DR IRVING 75063**

**SQL> insert into sxe3130.item values(03,'Moniter',120,50);**

**1 row created.**

**SQL> grant all on sxe3130.item to sxe3130,wxs5823,kxs1446,hxs2723;**

**grant all on sxe3130.item to sxe3130,wxs5823,kxs1446,hxs2723**

**\***

**ERROR at line 1:**

**ORA-01929: no privileges to GRANT**

**SQL> select \* from sxe3130.item;**

**ITEM\_CODE ITEM\_NAME ITEM\_PRICE QTY\_AVAILABLE**

**---------- --------------- ---------- -------------**

**4 Desk 200 15**

**2 PRINTER 100 30**

**1 LAPTOP\_HP 1000.5 100**

**3 Moniter 120 50**

**SQL> select \* from sxe3130.item;**

**ITEM\_CODE ITEM\_NAME ITEM\_PRICE QTY\_AVAILABLE**

**---------- --------------- ---------- -------------**

**4 Desk 200 15**

**2 PRINTER 100 30**

**1 LAPTOP\_HP 1000.5 100**

**3 Moniter 120 50**

**SQL> select \* from sxe3130.item;**

**ITEM\_CODE ITEM\_NAME ITEM\_PRICE QTY\_AVAILABLE**

**---------- --------------- ---------- -------------**

**5 Scanner 150 5**

**6 Chair 150 80**

**4 Desk 200 15**

**2 PRINTER 100 30**

**1 LAPTOP\_HP 1000.5 100**

**3 Moniter 120 50**

**6 rows selected.**

**SQL> select \* from sxe3130.item;**

**ITEM\_CODE ITEM\_NAME ITEM\_PRICE QTY\_AVAILABLE**

**---------- --------------- ---------- -------------**

**5 Scanner 150 5**

**6 Chair 150 80**

**7 CPU 320 50**

**4 Desk 200 15**

**2 PRINTER 100 30**

**1 LAPTOP\_HP 1000.5 100**

**3 Moniter 120 50**

**7 rows selected.**

**SQL> create table order\_item(**

**2 order\_id number(8) references sxp5519.orders(order\_id),**

**3 item\_code number(10) references sxe3130.item(item\_code),**

**4 item\_price number(6,2) not null,**

**5 order\_qty number(4) not null,**

**6 primary key(order\_id));**

**create table order\_item(**

**\***

**ERROR at line 1:**

**ORA-00069: cannot acquire lock -- table locks disabled for ORDERS**

**SQL> ALTER TABLE ORDERS ENABLE TABLE LOCK;**

**Table altered.**

**SQL> create table order\_item(**

**2 order\_id number(8) references sxp5519.orders(order\_id),**

**3 item\_code number(10) references sxe3130.item(item\_code),**

**4 item\_price number(6,2) not null,**

**5 order\_qty number(4) not null,**

**6 primary key(order\_id));**

**Table created.**

**SQL> grant all on orders to kxs1446,wxs5823,sxe3130,hxs2723;**

**Grant succeeded.**

**SQL> select \* from order\_item;**

**no rows selected**

**SQL> grant all on order\_item to kxs1446,wxs5823,sxe3130,hxs2723;**

**Grant succeeded.**

**SQL> insert into order\_item values(41003,03,150,7);**

**1 row created.**

**SQL> grant all on order\_item to kxs1446,wxs5823,sxe3130,hxs2723;**

**Grant succeeded.**

**SQL> select \* from order\_item;**

**ORDER\_ID ITEM\_CODE ITEM\_PRICE ORDER\_QTY**

**---------- ---------- ---------- ----------**

**41003 3 150 7**

**SQL> alter table order\_item add constraints primary key where column ='item\_code';**

**alter table order\_item add constraints primary key where column ='item\_code'**

**\***

**ERROR at line 1:**

**ORA-00902: invalid datatype**

**SQL> alter table order\_item drop primary key(order\_id);**

**alter table order\_item drop primary key(order\_id)**

**\***

**ERROR at line 1:**

**ORA-01735: invalid ALTER TABLE option**

**SQL> drop table order\_item;**

**Table dropped.**

**SQL> create table order\_item(**

**2 order\_id number(8) references sxp5519.orders(order\_id),**

**3 item\_code number(10) references sxe3130.item(item\_code),**

**4 item\_price number(6,2) not null,**

**5 order\_qty number(4) not null,**

**6 primary key(order\_id,item\_code));**

**Table created.**

**SQL> grant all on order\_item to kxs1446,wxs5823,sxe3130,hxs2723;**

**Grant succeeded.**

**SQL> select \* from order\_item;**

**no rows selected**

**SQL> insert into order\_item values(41003,03,150,3);**

**1 row created.**

**SQL> insert into order\_item values(41003,07,350,3);**

**1 row created.**

**SQL> grant all on order\_item to kxs1446,wxs5823,sxe3130,hxs2723;**

**Grant succeeded.**

**SQL> select \* from order\_item;**

**ORDER\_ID ITEM\_CODE ITEM\_PRICE ORDER\_QTY**

**---------- ---------- ---------- ----------**

**41002 1 1100 20**

**41004 5 160 1**

**41004 6 150.5 5**

**41004 2 102 3**

**41003 3 150 3**

**41003 7 350 3**

**6 rows selected.**

**SQL> select \* from order\_item;**

**ORDER\_ID ITEM\_CODE ITEM\_PRICE ORDER\_QTY**

**---------- ---------- ---------- ----------**

**41002 1 1100 20**

**41004 5 160 1**

**41004 6 150.5 5**

**41004 2 102 3**

**41001 2 200 5**

**41001 5 300 5**

**41003 3 150 3**

**41003 7 350 3**

**8 rows selected.**