**Practice exercise DDL and DML SQL commands:**

Using sale database located in Inna, and answer the following questions using SQL statements?

1. List all customers with last name of smith and live in Area code 0181

SELECT \* FROM customer WHERE CUS\_LNAME = "smith" AND CUS\_AREACODE = "0181";

1. List all vendors but only if there are products with the quantity on hand less than double the min quantity
2. List the products that are supplied by a vendor
3. List the v\_code of vendor that provide products
4. List the v\_code of vendors that provide products without duplicate values
5. List the V\_CODE and V\_NAME of vendors that provide products
6. List the V\_CODE and V\_NAME of vendors that do not provide products
7. Increase the width of P\_PRICE column to nine digits

ALTER TABLE product MODIFY P\_PRICE decimal(9,2) NOT NULL;

1. Add a P\_SALECODE column as CHAR(1)

ALTER TABLE product ADD P\_SALECODE CHAR(1);

1. Delete the P\_SALECODE column

ALTER TABLE product DROP COLUMN P\_SALECODE;

1. Change V\_CODE column to VARCHAR(5)

ALTER TABLE product DROP FOREIGN KEY FK\_PRODUCT\_VENDOR;

ALTER TABLE vendor MODIFY V\_CODE VARCHAR(5);

ALTER TABLE product MODIFY V\_CODE VARCHAR(5);

ALTER TABLE product ADD FOREIGN KEY (V\_CODE) REFERENCES vendor(V\_CODE);

***(run separately).***

1. Create a PART table with only using the code, description and price columns of PRODUCT

CREATE TABLE PART(

PART\_CODE VARCHAR(10) NOT NULL,

PART\_DESCRIPT VARCHAR(35) NOT NULL,

PART\_PRICE DECIMAL(9,2) NOT NULL

);

1. Add the PART\_CODE as primary key to the PART table.

ALTER TABLE PART ADD PRIMARY KEY (PART\_CODE)

1. Add vendor code as foreign key to the product table

*NAN*

1. Add P\_CODE as primary key the product table

*NAN*

1. Drop part table

DROP TABLE PART;

1. Create a view to list all products to order, that is the quantity on hand is less that the min quantity plus 10.

CREATE VIEW P\_VIEW AS SELECT \* FROM product WHERE (P\_QOH < (P\_MIN+10))

1. Create composite index on V\_CODE and P\_CODE on PRODUCT table

CREATE INDEX index\_code ON product(V\_CODE, P\_CODE);

1. Create index on P\_PRICE descendent order

CREATE INDEX index\_price ON product(P\_PRICE DESC);

1. Delete the PROD\_PRICEX index

ALTER TABLE PRODUCT DROP INDEX index\_price;

1. Update product date to 18th of January 2016, for the 13-Q2/P2 product

UPDATE product SET P\_INDATE = "2016-01-18" WHERE P\_CODE = "13-Q2/P2";