SCHEMA OBJECTS AND TABLES

Background: You need to create a schema objects for the new inventory application.

Tasks:

• Create tables to store data

• Ensurereferential integrity through the use of constraints

• Create indexes to improve access to data

• Modify existing tables

• Create views that simplify user access to data

1. In the INVENTORY tablespace, create the PRODUCT_MASTER table in the INVENTORY schema. The specifications of the table are:

PRODUCT_ID number(5). This is the primary key field.

PRODUCT_NAME varchar2(50) with a Not Null constraint.

CODE varchar2(20) with a Not Null constraint.

REORDER_THRESHOLD number(5) with a check constraint ensuring that the number is always greater than zero.

COST number(5,2)

PRICE number(5,2)

2. In the INVENTORY tablespace create the PRODUCT_ON_HAND table in the INVENTORY schema. The specifications of the table are:

ON_HAND_ID number(5). This is the primary key field.

PRODUCT_ID number(5). This field should have a foreign key constraint linking it to the product_id field in the product_master table.

QUANTITY number(5)

WAREHOUSE_CITY varchar2(30)

3. In the INVENTORY tablespace create the OBSOLETE_PRODUCTS table in the INVENTORY schema. The specifications of the table are:

PRODUCT_ID number(5). This is the primary key field.

PRODUCT_NAME varchar2(50) with a Not Null constraint.

CODE varchar2(20) with a Not Null constraint.

COST number(5,2)

PRICE number(5,2)

4. In the INVENTORY tablespace, create an index on the PRODUCT_NAME column of the OBSOLETE_PRODUCTS table in the INVENTORY schema.

5. In the INVENTORY tablespace, create an index on the PRODUCT_NAME and CODE columns of thePRODUCT_MASTER table in the INVENTORY schema.

6. In the INVENTORY tablespace, create an index the PRODUCT_ID and QUANTITY column of the PRODUCT_ON_HAND table in the INVENTORY schema.

7. Youreceive an update for the inventory application thatrequires you to add two columns to the PRODUCT_MASTER table. Add a column named PRIMARY_SOURCE of datatype varchar2 with size 50. Add another column namedSECONDARY_SOURCE of datatype varchar2 with size 50.

8. The update for the inventory application alsorequires you to add a column to the PRODUCT_ON_HAND table. Add a column named LAST_UPDATE of datatype date.

9. The update for the inventory application alsorequires you to add a column to the

OBSOLETE_PRODUCTS table. Add a column named OBSOLETED of datatype date.

10. You receive another update for the inventory application. This update instructs you to drop the

OBSOLETE_PRODUCTS table and add a column OBSOLETED to the PRODUCT_MASTER table with datatype date.

11. The second update to the inventory application also instructs you to create a view named WAREHOUSE_VW in the INVENTORY schema that the shows(in order):

- The name of the product

- The amount of the product on hand

- The warehouse city name.