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***CLASS – CS3410***

***DATE – 8/31/19***

***ASSIGNMENT 2***

***2.6 :-*** One retail order can be linked to many order items by primary key OrderNumber. One sku data can be linked to many Order items by primary key SKU. The RETAIL\_ORDER, ORDER\_ITEM and SKU\_DATA tables are not related to the CATALOG\_SKU\_2014 and CATALOG\_SKU\_2015 tables.

**2.17 :-**  SELECT SKU, SKU\_Description

FROM INVENTORY;

***2.18 :-*** SELECT SKU\_Description, SKU

FROM INVENTORY;

***2.19 :-*** SELECT WarehouseID

FROM INVENTORY;

***2.20 :-*** SELECT DISTINCT WarehouseID

FROM INVENTORY;

***2.21 :-*** SELECT WarehouseID, SKU, SKU\_Description, QuantityOnHold, QuantityOnOrder

FROM INVENTORY;

***2.22 :-*** SELECT \*

FROM INVENTORY;

***2.23 :-*** SELECT \*

FROM INVENTORY;

WHERE QuantityOnHand > 0;

***2.24 :-*** SELECT SKU, SKU\_Description

FROM INVENTORY

WHERE QuantityOnHand = 0;

***2.25 :-*** SELECT SKU, SKU\_Description, WarehouseID

FROM INVENTORY

WHERE QuantityOnHand = 0

ORDER BY WarehouseID;

***2.26 :-*** SELECT SKU, SKU\_Description, WarehouseID

FROM INVENTORY

WHERE QuantityOnHand > 0

ORDER BY WarehouseID DESC, SKU;

***2.27 :-*** SELECT SKU, SKU\_Description, WarehouseID

FROM INVENTORY

WHERE QuantityOnHand = 0 AND QuantityOnOrder > 0

ORDER BY WarehouseID DESC, SKU;

***2.28 :-*** SELECT SKU, SKU\_Description, WarehouseID

FROM INVENTORY

WHERE QuantiyOnHand = 0 OR QuantityOnOrder = 0

ORDER BY WarehouseID DESC, SKU;

***2.29 :-*** SELECT SKU, SKU\_Description, WarehouseID, QuantityOnHand

FROM INVENTORY

WHERE QuantityOnHand > 1 AND QuantityOnHand < 10;

***2.30 :-*** SELECT SKU, SKU\_Description, WarehouseID, QuantityOnHand

FROM INVENTORY

WHERE QuantityOnHand BETWEEN 2 AND 9;

***2.31 :-*** SELECT DISTINCT SKU, SKU\_Description

FROM INVENTORY

WHERE SKU\_Description LIKE ‘Half-Dome%’;

***2.32 :-*** SELECT DISTINCT SKU, SKU\_Description

FROM INVENTORY

WHERE SKU\_Description LIKE ‘%Climb%’;

***2.33 :-*** SELECT DISTINCT SKU, SKU\_Description

FROM INVENTORY

WHERE SKU\_Description LIKE ‘\_\_d%’;

***2.34 :-*** SELECT COUNT(QuantityOnHand) AS HandQuantityCount,

SUM(QuantityOnHand) AS HandQuantitySum,

AVG(QuantityOnHand) AS HandQuantityAverage,

MIN(QuantityOnHand) AS HandQuantityMinimum,

MAX(QuantityOnHand) AS HandQuantityMaximum,

FROM INVENTORY;

***2.35 :-*** The SQL Built-in function COUNT(\*) is used to count the number of rows in the table and the function COUNT ({Name}) is used to count the number of rows in the table where column {Name} IS NOT NULL **WHEREAS** the SQL Built-in function SUM is used to calculate the sum of all the values of the specified column.

***2.36 :-*** SELECT WarehouseID, SUM(QuantityOnHand) AS TotalItemsOnHand

FROM INVENTORY

GROUP BY WarehouseID

ORDER BY TotalItemsOnHand DESC;

***2.37 :-*** SELECT WarehouseID, SUM(QuantityOnHand) AS TotalItemsOnHandLT3

FROM INVENTORY

WHERE QuantityOnHand < 3

GROUP BY WarehouseID

ORDER BY TotalItemsOnHandLT3 DESC;

***2.38 :-*** SELECT WarehouseID, SUM(QuantityOnHand) AS TotalItemsOnHandLT3

FROM INVENTORY

WHERE QuantityOnHand < 3

GROUP BY WarehouseID

HAVING COUNT(SKU) < 2

ORDER BY TotalItemsOnHandLT3 DESC;

***2.39 :-*** There is a potential ambiguity between WHERE and HAVING clause. The results differ based on which clause is written first. To remove this ambiguity, WHERE clause is always written before HAVING clause.