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/* **** */
/* Name: Divya Pramasani Mohandoss */
/* Class: CS 6070 */
/* Term: Fall 2020 */
/* Assignment #: 3 */
/* **** */
```

```
use Cape_Codd
```

```
go
```

```
/* 2.28 */
```

```
Select SKU, SKU_Description, WarehouseID from INVENTORY where QuantityOnHand = 0 or
QuantityOnOrder = 0 order by WarehouseID desc, SKU asc;
```

```
/* 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 Count_QOH, sum(QuantityOnHand) as Sum_QOH,  
avg(QuantityOnHand) as Avg_QOH, max(QuantityOnHand) as Max_QOH, min(QuantityOnHand) as  
Min_QOH from INVENTORY;
```

/* 2.35 */

Count function: counts the number of rows in a table.

Sum function: calculates the sum of all values in a 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(*) < 2  
order by TotalItemsOnHandLT3 desc;
```

/* 2.39 */

The WHERE clause is always applied before the HAVING clause. Otherwise, there would be ambiguity in the SQL statement and the results would differ according to which clause was applied first.

/* 2.40 */

```
Select SKU, SKU_Description, inv.WarehouseID, WarehouseCity, WarehouseState from INVENTORY as  
inv, WAREHOUSE as war where inv.WarehouseID = war.WarehouseID and (WarehouseCity = 'Atlanta') or  
(WarehouseCity = 'Bangor') or (WarehouseCity = 'Chicago');
```

/* 2.41 */

```
Select SKU, SKU_Description, inv.WarehouseID, WarehouseCity, WarehouseState from INVENTORY as inv, WAREHOUSE as war where inv.WarehouseID = war.WarehouseID and WarehouseCity in ('Atlanta', 'Bangor', 'Chicago');
```

/* 2.42 */

```
Select SKU, SKU_Description, inv.WarehouseID, WarehouseCity, WarehouseState from INVENTORY as inv, WAREHOUSE as war where inv.WarehouseID = war.WarehouseID and (WarehouseCity <> 'Atlanta') or (WarehouseCity <> 'Bangor') or (WarehouseCity <> 'Chicago');
```

/* 2.43 */

```
Select SKU, SKU_Description, inv.WarehouseID, WarehouseCity, WarehouseState from INVENTORY as inv, WAREHOUSE as war where inv.WarehouseID = war.WarehouseID and WarehouseCity not in ('Atlanta', 'Bangor', 'Chicago');
```

/* 2.44 */

```
Select SKU_Description+'is in a warehouse in'+ WarehouseCity as Item_Location from INVENTORY as inv, WAREHOUSE as war where inv.WarehouseID = war.WarehouseID;
```

/* 2.45 */

```
Select SKU, SKU_Description, WarehouseID from INVENTORY where WarehouseID in (select WarehouseID from WAREHOUSE where Manager = 'Lucille Smith');
```

/* 2.46 */

```
Select SKU, SKU_Description, war.WarehouseID from INVENTORY as inv ,WAREHOUSE as war where war.WarehouseID = inv. WarehouseID and Manager = 'Lucille Smith';
```

/* 2.47 */

```
Select SKU, SKU_Description, war.WarehouseID from INVENTORY as inv join WAREHOUSE as war on war.WarehouseID = inv. WarehouseID where Manager = 'Lucille Smith';
```

/* 2.48 */

```
Select WarehouseID, avg(QuantityOnHand) as Avg_QOH from INVENTORY where WarehouseID in  
(select WarehouseID from WAREHOUSE where Manager = 'Lucille Smith') group by WarehouseID;
```

```
/* 2.49 */
```

```
Select inv.WarehouseID, avg(QuantityOnHand) as Avg_QOH from INVENTORY as inv, WAREHOUSE as  
war where inv.WarehouseID = war.WarehouseID and Manager = 'Lucille Smith' group by  
inv.WarehouseID;
```

```
/* 2.50 */
```

```
Select inv.WarehouseID, avg(QuantityOnHand) as Avg_QOH from INVENTORY as inv join WAREHOUSE  
as war on inv.WarehouseID = war.WarehouseID where Manager = 'Lucille Smith' group by  
inv.WarehouseID;
```