**Section : 03**

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**Challenge 1: Retrieve Data from Transportation Reports**

**Que 1:**

-- Retrieve a list of cities

SELECT DISTINCT

City,

StateProvince

FROM AdventureWorksLT2012.SalesLT.Address;

**Que 2:**

-- Retrieve the heaviest products

SELECT TOP 10 PERCENT Name

FROM AdventureWorksLT2012.SalesLT.Product

ORDER BY Weight DESC;

**Que 3:**

--Retrieve the heaviest 100 products not including the heaviest 10

SELECT Name

FROM

(

SELECT TOP 110 Name

FROM AdventureWorksLT2012.SalesLT.Product

ORDER BY Weight DESC

) AS A

EXCEPT

SELECT Name

FROM

(

SELECT TOP 10 Name

FROM AdventureWorksLT2012.SalesLT.Product

ORDER BY Weight DESC

) AS B;

**OR**

SELECT Name

FROM

(

SELECT Name,

ROW\_NUMBER() OVER(ORDER BY Weight DESC) AS rownum

FROM AdventureWorksLT2012.SalesLT.Product

) AS A

WHERE rownum > 10

AND rownum <= 110;

**Challenge 2: Retrieve Product Data**

**Que 1:**

-- Retrieve the product details for product model 1

SELECT Name,

Color,

Size

FROM AdventureWorksLT2012.SalesLT.Product

WHERE ProductModelID = 1;

**Que 2:**

--Filter Products by Color and Size

SELECT ProductNumber,

Name

FROM AdventureWorksLT2012.SalesLT.Product

WHERE Color IN ('Black', 'Red', 'White')

AND Size IN ('S', 'M');

**Que 3:**

--Filter Products by product number

SELECT ProductNumber,

Name,

ListPrice

FROM AdventureWorksLT2012.SalesLT.Product

WHERE ProductNumber LIKE 'BK-%';

**Que 4:**

--Retrieve specific products by product number

SELECT ProductNumber,

Name,

ListPrice

FROM AdventureWorksLT2012.SalesLT.Product

WHERE ProductNumber LIKE 'BK-[^R]%-[0-9][0-9]';