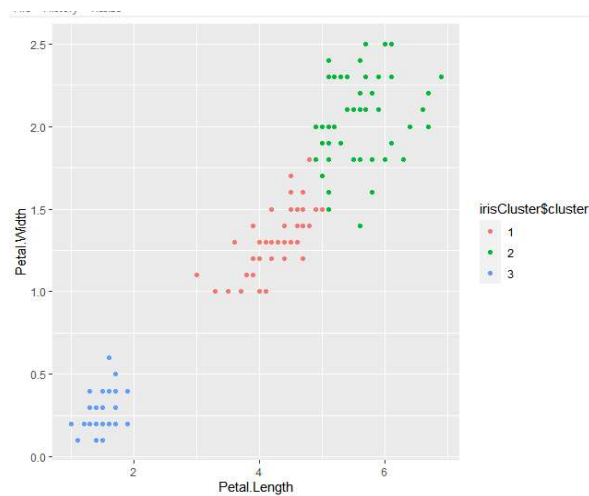


Q1. A

Output:

[illegible]

Graph:



Q1. B

Output:

Transformation 1) Split the Name Feild

Add constant rows

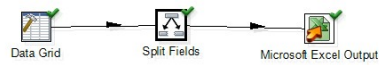
Step name: **Data Grid**

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Set empty string?
1	Code	Integer							N
2	Name	String							N
3	Area	String							N
4	Commission	Integer							N
5	Phone	Integer							N
6	Country	String							N

Add constant rows

Step name: **Data Grid**

#	Code	Name	Area	Commission	Phone	Country
1	101	Rohan,Rathod	Mankhurd	20000	8521345678	India
2	102	Hrishi,Yenure	Badlapur	50000	7894561230	India
3	103	Anish,Rane	Andheri	60000	8542613790	India
4	104	Sushant,Wagh	Koparkhaim	20000	7894563210	India
5						



Field splitter

Step name: **Data Grid**

Field to split: Name

Delimiter: ,

Enclosure: "

#	New field	ID	Remove ID?	Type	Length	Precision	Format	Group	Decimal	Currency	Nullif	Default	Trim type
1	Fname		N	String									none
2	Lname		N	String									none

Execution Results

Execution History | Logging | Step Metrics | Performance Graph | Metrics | Preview data

First rows: ☒ Last rows: ☐ Off: ☐

#	Code	Fname	Lname	Area	Commission	Phone	Country
1	101	Rohan	Rathod	Mankhurd	20000	8521345678	India
2	102	Hrishi	Yenure	Badlapur	50000	7894561230	India
3	103	Anish	Rane	Andheri	60000	8542613790	India
4	104	Sushant	Wagh	Koparkhaim	20000	7894563210	India
5	<null>	<null>	<null>	<null>	<null>	<null>	<null>

Loaded the data into Excel

A	B	C	D	E	F	G
Code	Fname	Lname	Area	Commission	Phone	Country
101.00	Rohan	Rathod	Mankhurd	20,000.00	#####	India
102.00	Hrishi	Yenure	Badlapur	50,000.00	#####	India
103.00	Anish	Rane	Andheri	60,000.00	#####	India
104.00	Sushant	Wagh	Koparkhai	20,000.00	#####	India

Transformation 2) Add a Sequence:

Add constant rows

Step name: Data Grid

#	Name	Type	Format	Length	Precision	Currency	Decimal	Group	Set empty string?
1	Code								N
2	Name								N
3	Area								N
4	Commission								N
5	Phone								N
6	Country								N

Add constant rows

Step name: Data Grid

#	Code	Name	Area	Commission	Phone	Country
1	101	Rohan Rathod	Mankhurd	10000	4521637890	India
2	102	Hrishi Yenure	Badlapur	80000	7845963210	India
3	103	Anish Rane	Andheri	500000	9857461230	India
4	104	Sushant Wagh	Koparkhaim	40000	4785961230	India
5	105	Yogesh Rawat	Govandi	70000	8759463210	India

Get Value From Sequence

Step name: Add sequence

Name of value: Sequence

Use a database to generate the sequence

Use DB to get sequence? ☐

Connection: Edit... New... Wizard...

Schema name: Schemas...

Sequence name: SEQ Sequences...

Use a transformation counter to generate the sequence

Use counter to calculate sequence? ☒

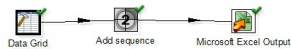
Counter name (optional):

Start at value: 1

Increment by: 1

Maximum value: 999999999

Help OK Cancel



Execution Results

Execution History | Logging | Step Metrics | Performance Graph | Metrics | Preview data

First rows | Last rows | Off

#	Code	Name	Area	Commission	Phone	Country
1	101	Rohan Rathod	Mankhurd	10000	4521637890	India
2	102	Hrishi Yenure	Badlapur	80000	7845963210	India
3	103	Anish Rane	Andheri	500000	9857461230	India
4	104	Sushant Wagh	Koparkhaim	40000	4785961230	India
5	105	Yogesh Rawat	Govandi	70000	8759463210	India

Loaded the data into Excel

A	B	C	D	E	F	G	H
Code	Name	Area	Commissi	Phone	Country	Sequence	
101	Rohan Rat Mankhurd		10000	452163785	India	1.00	
102	Hrishi Yen Badlapur		80000	784596321	India	2.00	
103	Anish Ran Andheri		500000	985746123	India	3.00	
104	Sushant W KoparKhair		40000	478596123	India	4.00	
105	Yogesh R Govandi		70000	675946321	India	5.00	

Q1. C)

Output:

```
SQL> CREATE TABLE Sales (
2     sid INT,
3     productid INT,
4     pname VARCHAR2(50),
5     year INT,
6     region VARCHAR2(50),
7     profit DECIMAL(10, 2)
8 );
```

Table created.

```
SQL>
SQL> INSERT INTO Sales VALUES (1, 101, 'Product A', 2021, 'North', 10000.00);
1 row created.

SQL> INSERT INTO Sales VALUES (2, 102, 'Product B', 2021, 'North', 15000.00);
1 row created.

SQL> INSERT INTO Sales VALUES (3, 101, 'Product A', 2022, 'North', 12000.00);
1 row created.

SQL> INSERT INTO Sales VALUES(4, 102, 'Product B', 2022, 'North', 18000.00);
1 row created.

SQL> INSERT INTO Sales VALUES(5, 103, 'Product C', 2021, 'South', 8000.00);
1 row created.

SQL> INSERT INTO Sales VALUES(6, 104, 'Product D', 2021, 'South', 9000.00);
1 row created.

SQL> INSERT INTO Sales VALUES(7, 103, 'Product C', 2022, 'South', 10000.00);
1 row created.

SQL> INSERT INTO Sales VALUES(8, 104, 'Product D', 2022, 'South', 11000.00);
1 row created.
```

Display product wise profit for each year

```
SQL> SELECT year, pname, SUM(profit) OVER(PARTITION BY year, pname) AS product_profit FROM Sales ORDER BY year, pname;
```

YEAR	PNAME	PRODUCT_PROFIT
2021	Product A	10000
2021	Product B	15000
2021	Product C	8000
2021	Product D	9000
2022	Product A	12000
2022	Product B	18000
2022	Product C	10000
2022	Product D	11000

8 rows selected.

Display product wise profit for each region

```
SQL> SELECT region, pname, SUM(profit) OVER(PARTITION BY region, pname) AS product_profit FROM Sales ORDER BY region, pname;
```

REGION	PNAME	PRODUCT_PROFIT
North	Product A	22000
North	Product A	22000
North	Product B	33000
North	Product B	33000
North	Product C	8000
North	Product C	8000
North	Product D	9000
North	Product D	9000
South	Product A	12000
South	Product A	12000
South	Product B	18000
South	Product B	18000
South	Product C	10000
South	Product C	10000
South	Product D	11000
South	Product D	11000

South
Product C 18000

REGION	PNAME	PRODUCT_PROFIT
South	Product D	20000
South	Product D	20000

8 rows selected.

Assign a sequential order(in ascending order), to products based on profit.

```
SQL> SELECT pname, profit, RANK() OVER(ORDER BY profit ASC) AS product_rank FROM Sales;
```

PNAME	PROFIT	PRODUCT_RANK
Product C	8000	1
Product D	9000	2
Product A	10000	3
Product C	10000	3
Product D	11000	5
Product A	12000	6
Product B	15000	7
Product B	18000	8

8 rows selected.

Display the name of region which is having highest profit, using Rank function.

```
SELECT region, SUM(profit) AS total_profit, RANK() OVER(ORDER BY SUM(profit) DESC)
```

```
AS profit_rank FROM Sales GROUP BY region HAVING rank_prof = 1;
```

```
SQL> SELECT region, SUM(profit) AS total_profit, RANK() OVER(ORDER BY SUM(profit) DESC)
      2  AS profit_rank FROM Sales GROUP BY region HAVING rank_prof = 1;
AS profit_rank FROM Sales GROUP BY region HAVING rank_prof = 1
```

*

ERROR at line 2:

ORA-00904: "RANK_PROF": invalid identifier

Display year wise total profit

```
SELECT year, SUM(profit) OVER(PARTITION BY year) AS year_profit FROM Sales GROUP BY year
ORDER BY year;
```

```
SQL> SELECT year, SUM(profit) OVER(PARTITION BY year) AS year_profit FROM Sales GROUP BY year ORDER BY year;
SELECT year, SUM(profit) OVER(PARTITION BY year) AS year_profit FROM Sales GROUP BY year ORDER BY year
```

*

ERROR at line 1:

ORA-00979: not a GROUP BY expression