

Select Operation

1

Relational Algebra
Table Name \Rightarrow Students

Name	Age	GPA
Drishti	22	80%
Deeksha	24	90%
Pratibha	26	80%
Anshika	20	90%
Reshma	15	80%
Samvika	10	90%

$\sigma_{\text{Age} > 21}(\text{Students})$

Output

Name	Age	GPA
Drishti	22	80%
Deeksha	24	90%
Pratibha	26	80%

Products

4

Name	Price	Category
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Mobile	50k	Electronic
Computer	80k	Electronic
A C	90k	Electronic
Refrigerator	10k	Electronic
Fan	1k	Electronic
Plumiera	1000	Furniture
Chair	500	Furniture

Category = "Electronic" (products)

Output

Name	Price	Category
Mobile	50k	Electronic
Computer	80k	Electronic
A C	90k	Electronic
Refrigerator	10k	Electronic
Fan	1k	Electronic

Employees

2

Name	Department	Salary
Drishiti	IT	80,000
Pratibha	Sales	90,000
Deeksha	Sales	90,000
Rashmi	IT	80,000

• Department = "Sales" (~~Employees~~)

Output

Name	Department	Salary
Pratibha	Sales	90,000
Deeksha	Sales	90,000

Orders

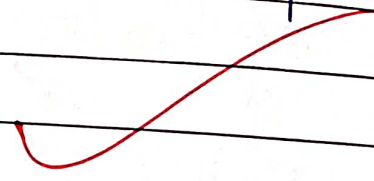
3

Order Number	Customer Name	Order Total
1	A	\$100
2	B	\$90
3	C	\$200
4	D	\$85

Order Total > \$100 (Orders)

Output

Order Number	Customer Name	Order Total
3	C	\$200



Project Operation

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1 ~~Students~~
~~Name~~ ~~Age~~ ~~GPA~~

1 ~~⊗ ⊗~~
⋈ Name, Age (Students)

Output

Name	Age
Drishiti	22
Deeksha	24
Pratibha	26
Ashika	20
Reshma	15
Sanskritika	10

2 ⋈ Name, Salary (~~⊗~~ Employees)

Output

Name	Salary
Drishiti	80,000
Pratibha	90,000
Deeksha	90,000
Reshma	20,000

3 π OrderNumber, Total amounts (Orders)Output

OrderNumber	Order Total
1	\$100
2	\$90
3	\$200
4	\$85

4 π Name, Price (Products)Output

Name	Price
Mobile	50k
Computer	80k
AC	90k
Refrigerator	10k
Fan	1k
Almirah	1000
Chair	500

Movie

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Title	Director	Rating
DDLJ	A	10
Sholay	B	9
RRR	C	8

π Title, Rating (Movies)

Output

Title	Rating
DDLJ	10
Sholay	9
RRR	8