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Relational Algebra

1. Table Name ⇒ Students

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

σ Age > 21 (Students)

Output

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

Products

4

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

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Employees

2

Name	Department	Salary
Drishti	IT	80,000
Pratibha	Sales	90,000
Deeksha	Sales	90,000
Reshma	IT	20,000

or Department = "Sales" (Employees)

Output

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

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Orders

3

OrderNumber	CustomerName	Order Total
1	A	$100
2	B	$90
3	C	$200
4	D	$85

σ Order Total > $100 (Orders)

Output

OrderNumber	CustomerName	Order Total
3	C	$200

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1) Students

Name Age GPA

1) ⋈

π Name, Age (Students)

Output

Name	Age
Drishti	22
Deeksha	24
Pratibha	26
Ayushika	20
Reshma	15
Samiksha	10

2) π Name, Salary (⋈ Employees)

Output

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

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3 π OrderNumber, Totalamounts (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
Fans	1k
Almira	1000
Chair	500

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Movies

5

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