

Assignment 2

DBMS

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EN19S301110

Q1. To perform Select Operation and Projection Operation.

Shop

Article	Dealer	Price
Bread	xyz	20
Biscuit	abc	30
milk	efg	20

Select Operation :

$\sigma_{\text{article} = \text{"bread"} \text{ and price} = \text{"bread"}}(\text{shop})$

output:

Article	Price
Bread	20

Projection Operation:

$\Pi_{\text{article,dealer}}(\text{book})$

output:

Article	Dealer
Bread	xyz
Biscuit	abc
milk	efg

Q2.To perform union, set intersection and set difference operation.

Person

ID	FN	LN	Address	City
101	Ram	Shankar	Vaishali Nagar	Indore
102	Sham	Gupta	Shiv Nagar	Ujjain

Student

ID	FN	LN	Address	City
101	Ram	Shankar	Vasant colony	Jaunpur
102	Guddu	Pandit	Prashant nagar	Mirzapur

1.Union Operation:

$\Pi \text{ FN (Person)} \cup \Pi \text{ FN (Student)}$

FN
Ram
Sham
Guddu

2. Set Intersection:

$\Pi \text{ LN (Person)} \cap \Pi \text{ LN (Student)}$

LN
Shankar

3. Set difference:

$\Pi \text{ FN (Person)} - \Pi \text{ FN (Student)}$

FN
Sham