

Explain select, project and division operations with examples.

Explain select, project and division operations with examples. (RGPV 2019)

Ans. **Select operations** : Select operation displays the records for the condition. Select operation is denoted by sigma ( $\sigma$ ).

Syntax:

$\sigma$ condition(TableName)

Example:

RollNo	Name	Brach
012	Jayesh	CSE
013	Kunal	ME
015	Dipali	EC

Input:

$\sigma$ Name=Jayesh(Student)

Output:

RollNo	Name	Brach
012	Jayesh	CSE

**Project operation** : Project operations displays the specific column of a table. Projection operation is denoted by pie ( $\Pi$ ).

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Syntax:

$\Pi$ ColumnName (TableName)

Example:

RollNo	Name	Brach
012	Jayesh	CSE
013	Kunal	ME
015	Dipali	EC

Input:

$\Pi$ RollNo (Student)

Output:

RollNo
012
013
015

Division operations :

Division operations involves dividing one relation by another. The division operator is used for division operations.

Student	
RollNo	Brach
012	CSE
013	ME

Explain select, project and division operations with examples.

015	EC
019	CSE
021	CE
034	AI

Branch
Brach
CSE
ME
EC

Student / Branch
RollNo
012
019

In above example, when the division operation is performed, it will retrieve only those RollNo from relation "Student" who has branch "CSE" from relation Branch.

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