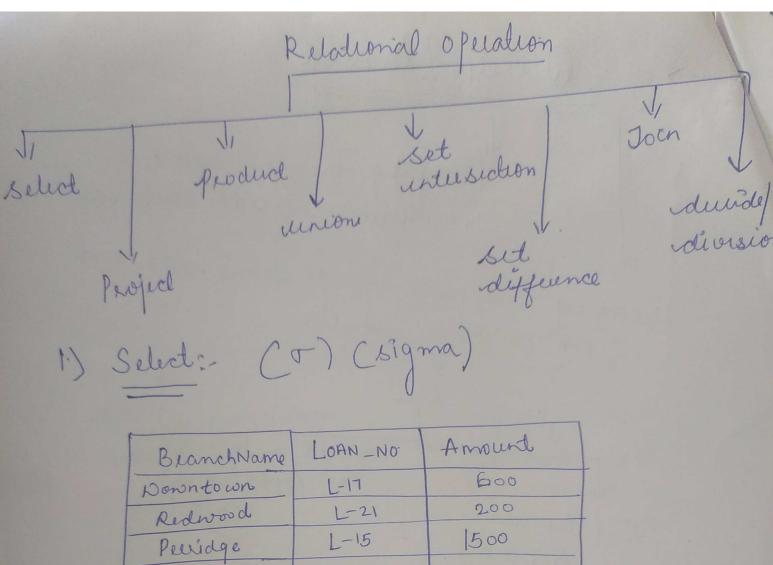
Integrity Constraints: It is a condition that can be applied on a database schema to resteict the data acc 20 med lif condition is Entity Integrity constraints Than only it can be stored inthe database Referential Integrity constraints EIC: It states no primary key value can be null ralus for primary key impreis that we can not key impreis that we can not noten lify any tuples. It ensure that Value that appears » RIC:in one relation for guven set of attributes also appear for certain set of attributes in another relation - Domain constraints 1 A set of atomic values. Collection is a set of collection of data appear in column.

Teigques: It executes automalically as a side effect of modification in database. It has 2 requirements specify the actions to be Sperify conclition is to be executed taken when triger escule

Query Language Language theough which are combusticate Twith database. Reading and meiting operations into and from existing database. Relational Rolational calculus. · Step by step process to obtain the result Operators are used to perform queries RA is procedural Dury language which takes relation as input and generate output as relation O'leatois can be unay or binary.



BranchName	LOAN _NO	Amount
Donntown	L-17	600
Redwood	L-21	200
Peridge	L-15	500
Hill	L-23	400
Peridge	L-16	1300

*Branchname = "perioge" (LOAN)

Select tupb where Pierdgeis nuitten

BN	LOANNO-	AMOUNT
Periogo	L-15	1500
Puida	L-16	1300

Project oPeration: (II) (Pie) It shows list of those attentities which we want to appear in result, Rest of altributes are eliminated from the table. sours or tuples 1 loan number, amount Goars LOAN NO Amount Tablo 600 Name 200 1500 400 3) The Union operation (- (U) -) eliminates the displicate I The names of all Band customers who how beither an account and Loan or both -> constraint for union of 2 rebations is that 1 and S tables both relations must [RUS] 2,3 relations have same set of attribute 1 customename (boerouse) UTT rustomename (deposite) Name of customers Customer Name who have either a coan JOHN 2 NTIME

4.) Set Diffuence operation: To find tuples that are in one relation eg - we have two tuples Rands. The operations contain all tuples cus tomes rus lones with account but no Coaro 5) Product operation de Cartesian product

(x) & denoted operation Allows us to consine enjo. from any two relations reand &2 The relation ochema for 12 = bouwwee x wan Beanch=name = "Pleryriag" (borrouse x wan) I et will find all cus comes who have down at Petridg branch.

R-name operation : The result of relation algebra enpressione donôt have sam nam that we can use to refer them Que them name by using "rename" specator Pr (E) - it will relain the Eunde the name X 7) Set intersection: (1) we want to find all customus who have both wan and and and account 115 = 1- (2-15) 1 eust-name Choronnee) 1 TC-M (depositor)

It projects the content of either a particular column or not than sings column - Project s - In formal Relational model Eveninology
a Row is called tuple - A cowmn header is called A Herbute - A lable is called Relation The select operation is used to select a subset of tuples from a relation that sales fris selection condition; - SElect: The school operator is univory re et is capplied to single operation Diffunc Betnuen Select / Project
operator