	Assignment No. 8
	Title - Database Trigges
-	
1	problem Statement: Write database trigger to keep  track records on library
	table.
	fort will no will appoint A
	no necles elek blands sud alak
	Objective :
	* Understand the concept of database
-	trigges
	· Understand MySQL commands
	Survey Considerant (Ind. 1997) 1977
	Slw package: Mu-501
	Slw package: My-SQL
	Aim Study of database trigger.
	3/18 0 10 10 10 p 1 180 100 1100
	perindens times i paper o
	pre-requisite: Basic knowledge of MySQL
	commands & database
	, - 1589 p.M
	Learning objections - To understand database trigger
	Leoning objective - Implement Lappy types . Of database trigger

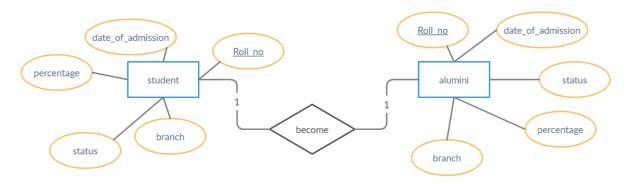
	The second secon
	3/10/1
	Theory :
-	what are ingges
	a triages define un action mas
	Lala hour Should take when some
	A trigger define an action that  data base should take when some  database - related event occurs.
	Trigger are similar to procedure in
-	Trigger are similar to processor
	Trigger are similar to procedure in that they are named PL-SQL blocks
	thanes tout brokaball
	Difference beth procedure & triggies.
	Joe-Mariet emplicitely
	A procedure is executed explicitely
	From anothor black via proceduse
	call with possing arguments which tely
	call with passing arguments while a trigger is executed implicitely
	10 08 pp/2017 1000
	whenever the thiggering climb
	happens & a trigger doesn't accept
	arguments.
	sopplet sufeter motstelde of subside parties
	Carl Hi S
	port graphs taxonologic s subsoide gardisos
	BORDINE Soudelob YO

	then traggers are used?  Maintaining complex integrity constrains or
	pained told
	· Auditing information in a tuble by recording the changes
	. Collecting / maintaining stastical data.
+	CREATE [OR REPLACE] TRICHER trigger-many
1	& BEFORE IAFTER 3 & INSERT LUPDATE DELETE
1	[of column] on table reference
+	[FOR FACH ROW [when thigger condition]
1	[DECLARE]
	- to the state of
	Types of trigger -
	NOW THE FARE
	Ruw-level-trigger
	The state of the s
	- Row-level trigger exercise ohre for each row
	in a transaction.
	. It identified by for each Row Clause
	· It identified by for each Row clavite  in a create trigger command.
	The state of the s

- A Committee of the Co	
Experience of the second secon	
- statement -level-trigger	
1 1408	xocute once top
statement lovel - trigger concentration for e.g. if a single turns of customes	
each transaction transc	ition inserted
for e.g. if a single	table tren
COO KOWS	- that
Statement level light	d once
Statement level trigger would only be execute	1 11 10 10
D.C. Alice bringely	14 40 1 31 131 4
· Before - After triggers -	1 1910146
THE STREET STREET, STR	Locaun at
events, they may be	set to occur
immediately before	or after
this events	110
this encus	
The event that exe	alte + yiqqe & are
databan transaction.	The south of the south
Coraban Taryour	
Yald trigger types	
	superick found to Addis
Statement (inject, update, 2 lovel (Row-level, statemen)	olote) Timina (BeFore at
statement statement	level)
TAKE TOWN HAVE A STATE OF THE PARTY OF THE P	A STATE OF THE STA
Credle Of replace triange	undate Major 1015
Create de replace trigges After ingest de Delat	2 08 11 11 11 11
	of dheath on
Students.	

-	CI-IDATE -
	Doubb
	Begin for y-state in c ctate 100P
	For x-stats in c-stats 100p UPDATE majure stats
	SET total-credits = V. statzkerum. total-credits
	total-students = V- Stals Record, total students
	whose major = v_stablecord, major,
	If SQL' NUTFOUND then
	Thister into majorstate (major, total-credition total-student) value (vstobrecord. total-credition)
	total-students) value (ustoffecold. total-(1PA)
	V-Staffke(Ora, Total- & type(1))
	END IF;
	END roob!
	END ypdaimajor stals
	Conclusion. They we implement the PL-SOL trigger
	in Oralle.

# **ER Diagram:**



### Code :-

create database assignment8;

use assignment8;

create table Student(Rollno int primary key,Name varchar(45),DateofAdmission date,branch varchar(45),percent float,Status varchar(45));

create table Alumni(Rollno int,Name varchar(45),DateofAdmission date,branch varchar(45),percent float,Status varchar(45));

insert into Student values(1,"Swapnil",STR\_TO\_DATE("August 29 2016", "%M %d %Y"),"comp",95.00,"pursuing");

insert into Student values(2,"Ganesh",STR\_TO\_DATE("August 29 2013", "%M %d %Y"),"comp",70.00,"pursuing");

insert into Student values(3,"Rahul",STR\_TO\_DATE("August 29 2017", "%M %d %Y"),"comp",86.00,"pursuing");

insert into Student values(4,"Abhudyan",STR\_TO\_DATE("August 29 2016", "%M %d %Y"),"comp",60.00,"pursuing");

insert into Student values(5,"Ranjan",STR\_TO\_DATE("August 29 2019", "%M %d %Y"),"comp",78.00,"pursuing");

```
select * from Student;
select * from alumni;
update student set percent=80 where Rollno=1;
select * from alumni;
delete from student where rollno=3;
select * from alumni;
```

drop table student;

### Assignment No :- 8 Roll No :- 31384

drop table alumni;

delimiter //
create trigger track
after update

on Student

FOR each row

begin

insert into Alumni

values(OLD.Rollno,OLD.Name,OLD.DateofAdmission,OLD.branch,OLD.percent,"passout");

end;//

create trigger track2

after delete

on Student FOR each row

begin

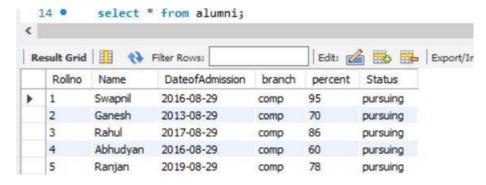
insert into Alumni

values(OLD.Rollno,OLD.Name,OLD.DateofAdmission,OLD.branch,OLD.percent,"passout");

end;//

## **Output:-**

Student table after inserting values manually and before Update or delete operation.:-

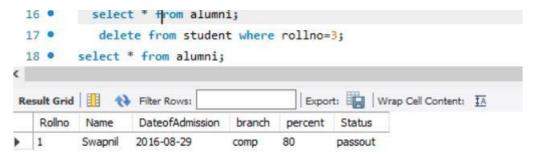


#### Alumni table before insert and update (empty)



update student set percent=80 where Rollno=1;

#### after updating Student table, alumni table looks like:-



delete from student where rollno=3;

### after deleting values from Student table, alumni table looks like:-

