|          | Assignment No8 Date:   |
|----------|--|
|          |  |
|          | Title: Study of all types of database trigger.   |
|          | Problem Statement:   |
| $\dashv$ | Write a database trigger on student table.   |
| $\dashv$ | The system should keep track of the records that are being updated or deleted                  |
|          | The odd value of updated or deleted record   |
|          | should be added in alumni table.   |
| -        |  |
|          | Objective:   |
| •        | Understand concept of database trigger. Understand mysgl commands.                             |
|          |  |
|          | Outcome!   |
|          | Student will be able to implement and apply all types of database triggers.                    |
|          | apply all types or database frigges.   |
|          | Réquirements:  |
|          | Fedora 29, is processor, & GB ram, mysgl   |
| -        | package.   |
|          | Theory:  |
|          | Triggers: A trigger defines an action that the   |
|          | Theory: Triggers: A trigger defines an action that the database should take when some database |
| _        | related exent ( such as phyert, update or  |
|          | delete) occurs. Triggers are similar to<br>procedures, in that they are name PLISQL            |
|          | blocks.  |
|          |  |

SAMRAT

| =          | Date:   |
|------------|---|
| •          | Triggers are used when:  Maintaining complex integrity constraints  Creferential integrity) or buissness rules.  Auditing information in a talled |
| 0          | Automatically signalling other programs that action needs to take place when changes are made to a table.   |
| •          | Collecting I maintaining stabilised data.   |
| 5          | There are 2 types of trigger in oracle in row level triggers and statement level triggers.  |
|            | Row Level Triggers: Row level triggers are for data related   |
| 1.         | Row level triggers are for data related activities.   |
| 2.         | Row level triggers execute once for each  |
| 3.         | L row in a transaction  |
|            | The is identifying by the for each row clause in the create trigger command.  |
| <b>2</b> 2 |   |

SAMRAT

| J        | Date:  |
|----------|--|
| 2,<br>3, | Statement Level Trigger:  Statement level triggers are for transactional related activities.  They're executed once for each transaction it is identified by omitting the for each clause in create trigger command. |
| ١.       | Managing MySal Triggers:  Before insert trigger: It is automatically fired before an insert event occurs on the table.   |
| 2.       | After insert trigger: It is automatically invoked after an insert event occurs on the table.   |
| 3.       | Before and After Update trigger: These are automatically intoked before! ofter update event occurs on the table.   |
| 4.       | Before and after Delete trigger: These are automatically invoked before lafter delete event occurres on the table.   |
|          | Conclusion: We have understood and implemented successfully all types of database triggers in Mysal.   |
|          | SAMRAT<br>Where Quality Rules  |

## Output

