1) Write a trigger that increase (10%) salary of your employees in your company and show solary difference of employees after the salary increment. The employee table details are given as pllans. Employee (name, payment, empid)

Answer!

In order to increase solary with trigger we have to use "instead of" trigger because we will insert of 10 incremented solary into database instead of original salary.

Trigger

create trigger trg-solory

on Employee
instead of insert

as
insert into Employee (select name, (Payment + ((Payment *10)/100)),
empid from inserted)

select name as Name, payment as OldSalary, (Payment +

((payment *10)/100)) as NewSalary, ((Payment *10)/100)

as Incremented from inserted

In above trigger when a new employee inserted solary of that employee will be increased by %10.

For example

insert into Employee Values ('Akif', 100, 1)

after runing this grey the result will be as follows.

Name	OldSalary	New Solary	Incremented
Aleif	100	110	10

2) Write a trigger that maintains refunded integrity for on delete coscode. Using a trigger when a department is deleted, the employees on that department also have to delete. The details of the are given below. Employee (none, Age, Adress, Depid)

Department (Depid, Dep None)

Answer:

In this question again we have to use "instead of" trigger. Because when we try to remove an employee in the "after" trigger the query will give error since they are relational.

Trigger

create trigger trg-delete Coscode

on Department
instead of delete

as
delete from Employee where Depid = (select Depid from deleted)
delete from Department where Depid = (select Depid from deleted)

By using instead of trigger we are remains the records monually in trigger. Therefore the records that are relational will be deleted safely.

3) What are the advantages and disadvantages of using NOSQL databases. Explain each of them?

Answer

Advantages

* Large data volumes => 600d for big dato

* Scalable replication =) Easy to distribute

* Less strictured data =) Queies run fast

* Flexible Schena =) Design is not complex

* Non-Relational or distribled detable system = Implementation is easy.

Disadvalages

* These databases are not so good for complex queries

* Compability issues with SQL instructions.

- Most of them are not support SQL queries

* ACID transaction proporties are not needed.

- Problems with atomicity and consistency.

4) Give characteristics of blockchain debbases. Explain each of the characteristic. What are the differences between blockchain databases and traditional debbase.

Answer!

A blockchain is kind of a delebere because it is a digital ledger that stores information in deta structures called blocks. On the other hand a traditional delebere is a data structure used for storing information.

Characterities of blackchain database

* Decentralized Control => Generally, blockchains allow different Parties to store information with each other without requiring a central administrator.

* History of itself = Centralized databases record present information only.

* Performance =) they are considered as slow as detabases when considered for digital transaction technology.

Différences between blockchain debases and traditional ones

	Block Chain	Traditional
Trasaction	Date con only be in lead or added to the blockchain	Data con be created, read, updated or deleted.
Query Performance	Slow	fast
Struture	Decentralized	Centrally Managed

5) What are the advantages and disadvantages of using a graph delabose? What are the characteristics of Neohi graph delabose?

Answer!

A graph database stores nodes and relationships instead of tables or documents. Data is stored without restricting to a pre-defined model.

Advantages of graph Latebase

* The structures are agile and flexible.

*The representation of relationships between entities is explicit

* Queies output red-time results. The speed depends on the number of relationships.

* Allow data analysts to federate data sets without having to create and run complex queries that soin Combinations of tables together as in the relational database model.

Disaduanteses of graph deblase

* There is no standalized query langue. The language
Jepands on the platform used.

* Graphs nose inappropriate for transactional-based systems.

* Graphs nose inappropriate for transactional-based systems.

* The user-base is small making it hard to find support when running into a problem.

* The most popular graph database
* Graph oriented

& ACID-compliant transactional detabase with native graph storage and processing.

* Everything is stored as an edge, a node or an attribute

* Each node and edge can have any number of attributes.

* Both the nodes and edges con be labelled.

* Labels can be used to narrow searches.