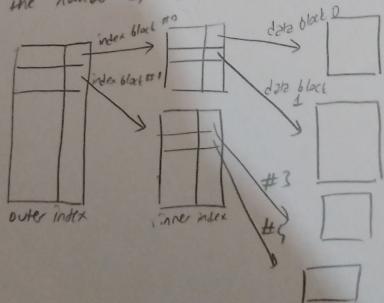
1- what is a weak entity? (give an example 2- what is referential integrity constraint? (give an example 3- what is multilevel indexes. Draw an example and explain it 4- Explain steps in query processing

1-19 an entity which closes I have sufficient attributes to form
a primary key are known as weak entity. That means
as the weak entities and have any primary key, they cannot
be identified on their own, so they depend on some other
entity. They are represented with double rectangular for
example; the bank account of a particular bank has
example; the bank account of a particular bank has
no existence if the bank obesing exist. Or the other
example is if we create a hotel database. The existence
example is if we create a hotel database. The existence
example is if we create a hotel. The last example
from is weak entity of hotel. The last example
from is weak entity of hotel. The last example
from is weak entity of hotel. The last example
from is weak entity of hotel. The last example
from is weak entity of hotel. The last example



2-Referential integrity constraint is a relational database concept, which states that table relationships must always be consistent. That means, any facign key field must aggree with the primary key that is referenced by the foreign key. For example: if "Math" is a department name appearing in one of tuples in instructor relation, there exists a tuple in the department relation for "Wath"

3- It is used for optimize the performance of database by minimising number of tisk accesses required when a query is processed. It is a technique which is used to quickly locate and access the data in database. They index kept on a disk as sequented and construct space index. Other index: A space index of the basic index file is inner index. It has findex is too large to fit in number get another level of index can be created another level of index can be created on of course indexes all level must be updated on the operation of dark accesses.



## \* 1- Parsing and Travlation

During parse call, the database check syntax and semantic. Syntax check includes wrong character or not valid etc. Sometic check means the statement is meaningful or not For example query contains a name but this name doen't exist in toble

## 2 - Optimization

Dring optimization, database mot perform a had parse as least for one ingre DMC statement and perform ophnicistion during this garse. Detabase stores the execution plans and then apriminer passes the lowest cost plan for this execution.

## \*3 - Evaluation

Mally runs the guery and display the required result

- a) select employee name, street, city from employee, works
  where employee employee name = works employee name
  and company-name = "Pirst Bank (organism" and salary > 10000
- b) select employee name from works
  where salary > all (select salary from works
  where company-name = "Small Bank Corporation")
- c) select company-name from works

  where avg(salary) > (select avg(salary) from works

  where company-name = " First Bank Corporation")