

Decerior tree: is a flow chart like tree structure where each internal node denotes the test on a attribut each branch represents as outcome of the fest and leaf nude represents classes or class distributor. Top prost node m a tree & a root node.

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subject of many of which to minimize the first out out

had received or and ourse of our constructions income

Energia Trac Laduration of the a distribution

12 49 1 19 10 10 1-7

to not saw - Ro * Rm - Fm - Rh Rn - Rm Bh-Rm

N. T. T.

constitutes) -> CE Tre -> store the clutter feature. -> Doly one scan of data is necessary. CF 1 CA, LS, LSO 1 A S & (Balanced Heratin Reducing & clustering wing Hironomy (6,1) (4,3) (9,3) (1,4) (3,4) (2,6) (4,1) (4,1) (3,2) 55 = 3+2+4+4+3=554 51. 2+2+4+4+2 = 57 55 - Your of squand of pts 05 = 8 + £ + 2 + 9 + 3 = 0512,84, 4579 to A STATE OF THE STA -> Two chusters are might -> if interconnuting & counter -> 2 parameters - + Interconnectivity & elumines. than 3: Global chietering the was existing chutching to sent Buite abouthon of BIRCH; thated phase I: food the data into memory. CF = (N, LS, 25) phase 4: Chities of ning , Strong Strong 23 = 6 t 7 t 8 t 8 2 = 213. 50 = 8+ 1+ 1+9 = 57 Chambon: Abrarchical clustering using offinamic in duling Construct CK-MM) in hirrorchical clustering algo-CF = (4). Routh hims A A Final (But interior in charty dropp party a time short affer with a friter boughts 2+3+3+4 = 12 eligenthm on cf ontive. 3 Course & was a course 307 Rm BA-RM

- Then compute the new mass for each cluster. This the chiefer. process throate until all the object are in one of

Olp: Set of k chuster. The No. of k clusters, a objects. K-mideld Algurithm

Method:

Met

es) Repeat

Arrigo each remaining object to eluiter moth

e) Randomly select non-medical object Crutains

S) Compute total out, s of sweepping of with Orandom

s) If s < 0 then sweet to form are new set of

T) Until no wharper

K- medrid Algorithm (&m) x * x

Manhattan distance

11×1×1+ 145-41 = 15-81 t 15-21 = 3+3.21.

- 12-81 + 12-51 2 5 + 9-5

> -> [e-8] + [4-2] = 2 14-81+17-21=4+5=9 hante = 15-71+15-81 + 14-51+15-1 5-1+15-31





-> Norks by grouping data beguts into true of clurks. sateste Herrarchical Will thool & to & Day

Agglomeration there chical chinking:

This is bottom-up strategy charits by blowing each object.

This is bottom-up strategy charits by blowing each object.

This is bottom-up strategy where they atomic dustriss

This is own church and then nerge they atomic dustriss

That larger slarger clusters until all the object wir my

That larger slarger clusters until all the object.

This is top-durin alphroach it starts with all object in 1 - 1 miles from the country of the during the church in the church in the church in the country of the country of the church in the church i smaller pieus until each objut forms a cluster on 184

The state of the state of

Catigorius of churtering rathods

Pastioning narthod

- BB of n objut, k partions of data

-> classify data into 1 groups of exceptly on group.

. Vues iterative relocation behingue without

1) k-means

2) k-medio id

- Methods -> Herrarchical decomposition of given set of deute objects 2) Himarchical Method

1) Agglomerative - Bottom-up

3) Dinsity Bould Method given cluster as long as the durity exceeds some mrshoud

+ 1

- It quanties the object space into think no of wh A) Bratt Krist d Based rather that from a grid structure AU the churchery

tartioning Method (30 mm) ***

-+ K- weare Algorithm

IP: no. at clusters k, A objects.

1) Artistaly choose le objecte ou instral cluster

3) Cres assign each object to chuter to which the object is most esimilar bound on mean tone of the object in the cluster.

- Rox Fam

RM [RdH] Ro

Saves theher

Rn-Rn- LIC

4) Update the cluster mean.

5) Until no change





the distance blu object and cluster mian. which initially supresents cluster many or clusters which initially supresents clusters many or clusters.

- compute cube - Aggrigate over all subsets of dimensions. e-g., 3 elmentions - city, item, year and state -in-dollar as Compute and operator and it's implementation

ecity, years, estero, years, ecity, item, years, ecity, eting, ecity, years, estero, years, ecity, esteros, est

(conjugacy) Compared (city, itm, year) athm o year 1-0 whard O CO -Dag on our brown wag at 13 3-D (ban Cubord

Fig. 3 D Database

Patawarhow: Backund Took and OHIHu. And I some our House 101. O. 10. 10. 10. 10.

1. Data extraction

2. Pata cleaning
3. Total Transformation
4. Loud transformation
5. Refush - All the updates to the date has to be done

and as water it commonly the base

The said to the said of the said

The church is a collecture of data object that an estador to one another within the raine cluster and dispositor in other chuster.

prounting, apastern designition, data analysis, market my at Roman

- Clustering is an example of unsupervisored Laming.

* Unsupervisored Learning about silve on problemed cluster and - Emcloses labelled training wamples.

* Supervisored - Fredymed sets on claims.

Requirements of chutting

a. Ability to chal with different types of attributes.

3. Animinal requirements for domain throwing to detain.

3. In most parameters on domain throwing to detain.

4. Ability to shal with nowy data

Comme of the Comme

5. High dimensionality.
6. Constraints bould voluntering.
7. Interpretability and washirty.

Types of data in elustri analysis

a. Binary comouble -> 0 to I colour (pyruntry work than one) 22 4. Sudinal -> Herritant, Amodate & robusor (order / regum) Interval realed variable - 200-200

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or to make being some board out of the services of the service

2) Chorn grain of the print business process transmitten 3) "Choose the climen irons or choose a business process that modulate go or dry, shipming & Bottom this is almost a situational DB white this data

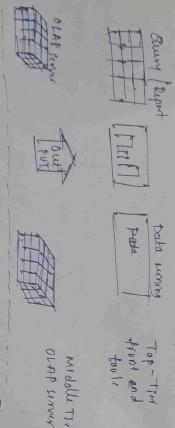
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Prouse of Database Durgo

-- Botton-up approach - experiment and protypes - top down approuch - duign of planning.

-> Software Engg -> Flanning sighterment study, problem analysis, warehouse duign, Duta integreture and testing, -> Combined approach. duplyment.

Thru- File DW Architecture (8-10 M) **



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Administration ON ON O Continuent DD Lead DD Extend

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* Top their contains superting tools, analy is tools and

Bh-Rm 80 - Rm

- Lollects all of the information, about subjute spaning Entirprise marchouse and data mart 1 RB # RD

Duta Mart: It contains information spuisse to an organizate not

TYPU OF OLAR SENIERS

a) Multiclimentional OLAP Liver i) Relational of P survey

as the bird of semin.

- Application board on selectional DBMs. It can handle to dange amount of info., it has greater scalability:

- 1 - and it's performance is slow so low.

a) Mutidimentional OLAP sur Application bound on muttidemunitional DBMs. It has our deut wife, introd, performance complex calculation and social Through induring with can be retrieved limited info. It can handle.

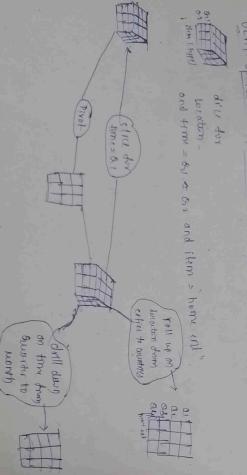
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OLAP opiration in multicuministronal data model



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e.g. short city etate worty

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Dutawam house Architecture

- steps for during and was the state of the state of 1) Prient relevent infautur information.

a) Enhance Suriners tomouterity.

3) automer relationship warragement

1) Cost Declution

i) Top-ducon views Allows the selection of allowerst intern = 2 of different views argarding the durign of dodo workhouse of all

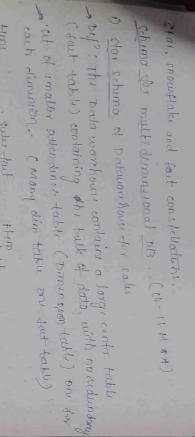
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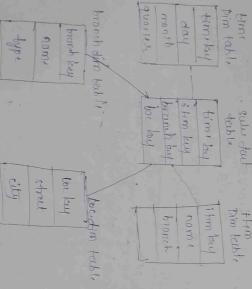
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Data worknow with includes that and dimension tables

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It is the variet of the stor scheme table when come the data into additional tables. Spewflak Schoma

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Coty key

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BA-RM

- One for cube of 2 language primitive

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e-g, stor schima dullors-sold = cum (sales-in-dollar), uniti-sold = count (x) duting diministers time as (time-key, day, month, year) itimi as (item-by, name, brond) branch on Chranch - bulg : Hom!

· g. snowfloki rhima define dimension itm as (item-key , nome, type, supplied (supplienting) obtine diminion dicates a as (bocation-ky, street, city (aty-ky), etablo as define cubt soutor-stor [Hime, item-bronch, location, superposity

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