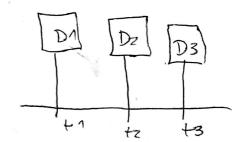
TDB Typy

- 1 Snímkova tabulka
 - Prizmene now-snapshot DB
 - casi platnosti uda ve cislo poctusnímkou
 - Super pre statistiku
 - ADB bobization 24an DB noxumina
 - ala keay bola poalvienta spinera



- 2 Transakona tabulta
 - mozma Iba pripajat noverceei
 - Motry Tollback u dota Ecch
 - transakcia reposse k akej zmene dorto
- (3) Tabulka s platnými cásmi
 - -motieme modifixoual
 - Kazay Tradok onkeay -dokedy
 - Ri = {(+ ajian) : (ajian) + rin Ri}
 - Je etu. s mederom 50 spshotmi (TxDn) > boor (Dn x beal)
- 4) Tabulka s dogategíni cásmi
 - alata' iba prida'vame
 - cas platnosti t transakcie
 - Mostry Tollback
 - agkazy ao histójue.

	5 (92)	10 10			
1	Meno	UStau	Platny	Trens	
	Jan	V5T1	1 2	1	_/ `
	Jan	VST 1	1	2 2	
7	Jan	UST2	67	8	

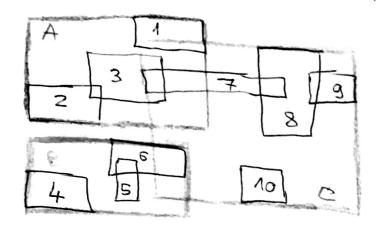


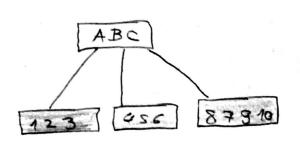
R-tree

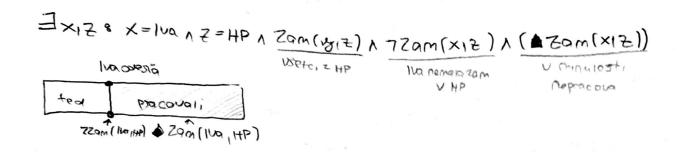
- Zaistupca metology pretogivania
- oakaz Iba u jednom uzle
- nutre poetikaatat ubic cest stomu

RHTRE

- -zastupca orezaionia
- Objectly obli na crasti
- at resusedia viosity prukn







Generichost's $||D_1|| = ||D_2|| \Rightarrow ||fD_1|| = ||fD_2||$ Ak data Tounque (tak Tounque aj odpour de $P^{D_1} = \mathcal{E}([D_13]_{1a}) \mathcal{E}([D_12]_{1a}) \mathcal{E}([D_$

Uystup DDB & minimainy model Mk

MI Mn moveli mnoting Swffs

MK CM; I JE I 10001K-1, K+1 000 N 3

13H. H Je. mode & S a Mc HK

Obsorruse Tiesènie, preto de ten hiadany

AK Sur nagacie. mose byt viac min. movelov

P(x) & -7 (x) N 7 9(x)

DB = & T(1)}

Q(x) & - T(x) N 7 P(x)

Relative

Model dots relacting knowing tabutek, obnedeene DT, FK nie ukazatelim.

Wiretery model hoursty u stipe och tabutky I kurzor

Objektare!

- bytudiance perzist. and take objection
- neexisting standart and sour
- applytuju Rlacky zystém

Moder out & Objectory

triedy, atributy isperace

OID

ADT, sopurable polymort

nstand ophertor bourcon selecuci, ces OID

Man your at priama

Dolozovaci jaryk 8 beżné 00 prog. Jaryky. Wjedetny model 8 OID I Mulgace SKIB. referenci OID

apase-anothera

- poorpera obj. rossireni
- obotacene tabuller o obj. orlentaci
- date utabulkach, hownesty ADT
- Obdobe OID (now withy more tabultami)

Dod. forgh: SEL-1959

Ujp. model & KUTZOT + KARANCHE

1999

- LOB, BLOB, CLOB
- _ Boolean
- Array
- ROW 51028 my 541 fee
- -SIMILAR 11Ke I regexp
- TERUTZIUM DOGEZ
- SAVE POINT
- -UDT uztraterom over typy (atributy/metody)

Typolare tabulky

Totalty s Madrami nesucini UDT kazay Tigodok REF (loen4ta)

Howevery object
Morne stipe cirtory se closery

XIL Typy

Dateve typy

- PR zapis and itypychy k prenosu
- DB 3 XMC 3 DB
- previousna struktura
- Jemna, Brauntalita
- nieco ata exporta ab

formmentous typy

- Citarie a spac. Tham,
- 20'kztí na poradí
- morey provide Ina struktuit a
- nopro kning

Databasane syst. spoopprou XML

- DB J XHL XHL JDB
- datous zamerane app (homosche DB)

Nations out XTL systemy

- Datous model atco XTL
- Rychie
 - ramino, Exist
- datoue at ackum app

Wighters

- mussingly relacted boulga was XX
- Obłazovanie u \$ SQL
- datoro zometare
- IBM DBZ

Middlemore

- DB J XMC XMC JDB
- bookers bie XHT n ucigB
- Matolo zamerane-
- Microsoft APG, Oracle XDK

XML Data binding

XMC - Objectly 29p. data

- 019+000 zametane
- JAXB

Content Management

- non nabiviou XMCDB, sub. syst.
- Glorumenteus zonere &
- GEM

Stenogrt XML

- -datay typ xMC
- FUNKCE PRXTIL (XMIELEMENT, XMITOUT)
- Praviala moparana Sarla XML

Cracke 11a

- CON 9. Z
- 6yp XMLType
- IQL funke e a operateur propori s XIIL
- dualita XIIL @ SQL
- XPath (Xquery

Aricashe as DB

- utleagne of rel. to bury
- Joskia of sostonerie vo abbinjavi
- -vorgie or crob
 - flexibilize na zmenu schematu
 - Tythle I skenk
 - pomaje aktualizatie
- Objektovo-relacte vlogene
- Poutite XMCTUPO prelytucione Objekt tobullar
- Mapouenne a validacia
 - prace xpath
 - Mostrout bedoni be amous 2000

Temporaína logika 1 rabu

temporaline relacing Kalkul

M = Rx (filxin,...xin) - Tozzirer schéma DB

M \ M | ec - 10g. spozzy

Xx = Xd

= date prenenne

tx < fil] \ \tau \ M - date prenenne

- temperaline prenenne

- cas fe suicast ou dat

- oaipoueur = \(\frac{1}{2} \) \(\tau \) \(\

Shrukovanje

A rozmerna tempotalna relace mázhruky ak

Je kazdy fort spojavany snajure konečným

poctom neprekty vajuácich sa intervalou.

treba zarucit ak nach datomi nelegické operace

tekche operache zhruhované nezotučujú

Zbraconavie, Veser braniais.1

- Pre katore praviollo spociitame relativi tela predikatu
- Uypocet te pretercia tela pred. na premnene koresto strbuictou
- Doenadza k zjednoteniu y szedkou pie vsetky kombinacie: