

Validation based protocol

Г.			
-		_	-
١-	_		-1
_	~	_	

DBMS Computer Network Python More. Super key in DBMS Search this website DBMS Tutorial Basics Definition of Super Key in DBMS: A super key is a set of one or more attributes (columns), which can DBMS Tutorial uniquely identify a row in a table. Often DBMS beginners get confused between super key and DBMS Introduction candidate key, so we will also discuss candidate key and its relation with super key in this article Database Applications How candidate key is different from super key? DBMS vs File Answer is simple - Candidate keys are selected from the set of super keys, the only thing we take care System while selecting candidate key is: It should not have any redundant attribute. That's the reason they are DBMS vs RDBMS also termed as minimal super key DBMS Architecture Three-level DBMS Let's take an example to understand this architecture Table: Employee View in DBMS Abstraction Emp SSN Emp Number Emp Name Instance & Schema 123456789 226 Steve DBMS languages 999999321 227 Ajeet 888997212 228 Chaitanya Data Models 777778888 229 Robert Data Models Super keys: The above table has following super keys. All of the following sets of super key are able to uniquely identify a row of the employee table. C ER Diagram ER Design issues {Emp_SSN} Convert ER to table • {Emp_Number} O DBMS • {Emp_SSN, Emp_Number} Generalization • {Emp_SSN, Emp_Name} DBMS • {Emp_SSN, Emp_Number, Emp_Name} Specialization • {Emp_Number, Emp_Name} DBMS Aggregration Candidate Keys: As I mentioned in the beginning, a candidate key is a minimal super key with no Relational Model redundant attributes. The following two set of super keys are chosen from the above sets as there are Hierarchical Model no redundant attributes in these sets. Constraints Cardinality • {Emp SSN} {Emp_Number} Relational Database Only these two sets are candidate keys as all other sets are having redundant attributes that are not RDBMS concepts necessary for unique identification Relational Algebra Relational Calculus Super key vs Candidate Key Carrier Keys Index I have been getting lot of comments regarding the confusion between super key and candidate key. Primary Key Let me give you a clear explanation Super Kev 1. First you have to understand that all the candidate keys are super keys. This is because the Candidate Kev candidate keys are chosen out of the super keys. Foreign Key 2. How we choose candidate keys from the set of super keys? We look for those keys from which we Composite Key cannot remove any fields. In the above example, we have not chosen {Emp_SSN, Emp_Name} as candidate key because {Emp_SSN} alone can identify a unique row in the table and Emp_Name is Alternate Key Normalization Normalization A Primary key is selected from a set of candidate keys. This is done by database admin or database Functional designer. We can say that either {Emp SSN} or {Emp Number} can be chosen as a primary key for the dependency table Employee Transaction Management Next > Transaction ACID properties Transaction States DBMS Schedules Serializability Conflict Serializability View Serializability Recoverability Of Failure Classification Comments Log based Recovery DBMS Checkpoint Ansh says Deadlock LY 17, 2016 AT 5:07 PM **Concurrency Control** Why Emp_Name is not candidate or super key? Concurrency Control Reply Lock based protocol Timestamp based Lee says

Emp_Name cannot be both because names are not unique e.g. there could be

File Organization hundreds of Jack inside the database. File Organization Reply Sequential File Organization Heap File Organization Hash File anuj says Organization DBMS ISAM sir why don't Emp_Number is a super key B+ File Organization Cluster File Reply Organization SQL Introduction Gabriele says SQL Introduction SQL Characteristics Emp_Number is a super key, in fact with just Emp_Number we can lead up to Advantages of SQL Emp_Name or Emp_SSN; SQL Commands SQL Operators Emp_Name is NOT a super key because we can have 2 "Steve" or 3 or 4 in that table.. SQL CREATE Name are not unique, we cannot say the same for SSN codes or Emp_Number. Bye Gabriele SQL DROP SQL SELECT Reply SQL INSERT Chaitanya Singh says It is a super key as mentioned in the article. Reply Imran khan says What is the difference between super key and candidate key? Reply Chaitanya Singh says I have added more details on this in the guide, Please refer the added section above. Reply lavanya says MAY 4, 2018 AT 7:55 AM I have doubt that $\label{lem:condition} \mbox{{\it Emp_SSN}, Emp_Number} \mbox{ pair also Candidate Keys?.because both are not a redundant}$ attributes Reply Chaitanya Singh says No {Emp_SSN, Emp_Number} pair is not a candidate key because {Emp_SSN} alone is sufficient to identify a unique row in table. The same applies for {Emp_Number}. So based on this we can say that {Emp_SSN} and {Emp_Number} both are candidate keys but {Emp_SSN, Emp_Number} is not a candidate key. Reply

kirti says

SEPTEMBER 17, 2018 AT 1:29 PM

is candidate key also primary key?

Reply

Chaitanya Singh says

DECEMBER 11, 2018 AT 5:02 A

There can be number of candidate keys present in a table, however there is only one primary key. A primary key is always chosen from a set of candidate keys. The decision of choosing primary key from a set of candidate keys is made by database

admin.	
Reply	
Sai kumar says	
SEPTEMBER 17, 2018 AT 9:31 PM	
why not the emp_name is the part of candidate key .though it is also having unique set of	
values???	
Reply	
Chaitanya Singh says DECEMBER 11, 2018 AT 4:58 AM	
December of the control of the contr	
Because more than one employees can have same name.	
Reply	
keerthi says	
OCTOBER 17, 2018 AT 1:25 PM	
candidate keys are always come with pair so, why{Emp_SSN, Emp_Number} is not a	
candidate key	
Reply	
Chaitanya Singh says	
DECEMBER 11, 2018 AT 5:00 AM	
No, candidate keys are not necessarily to be a pair of attributes.	
Reply	
Leave a Reply	
Your email address will not be published. Required fields are marked *	
Tour email address will not be published. Required fields are marked	
Comment *	

Name *	
Email *	
POST COMMENT	