9 – Databáze – jedná se o soubor obsahující buďto jiné soubory či data, tyto data můžou být jakéhokoliv typu ať text, číslo či obrázek. Nejobecnější databáze je tabulka skládající se ze sloupců a řádků. Sloupce nazýváme Atributy a řádky jsou Záznamy.

Databáze je také zabalena do SŘBD (systém řídící bázi dat – více zmiňován po modelech databází) a ten je dále obalen v aplikaci která slouží jako uživatelské prostředí pro ulehčení práce s databází.

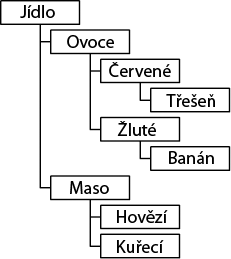
Data bázní pojmy:

* Atribut = sloupec tabulky
* Záznam = řádek tabulky
* Pole = buňka tabulky (místo kde se protíná sloupec a řádek)
* Primární klíč = jednoznačný(unikátní) identifikátor záznamů v tabulce
* Cizí klíč = klíč tabulky, který odkazuje na primární klíč jiné tabulky(vezmeš primární klíč jedné tabulky a uděláš druhou tabulku se stejným klíčem a ten zkopírovaný klíč je ten cizi)
* Relace = propojení mezi tabulkami, jenž vede k předávání informaci mezi jednotlivými tabulkami
* Datový typ = určuje jaký druh data je v poli INT, TEXT atd (více definováno na další strance)

Typy Relací: (během relace musí mít oba klíče stejný datový typ)

1. Jedna ku jedné (1-1) tabulky mají propojené primární klíče a obě referují pouze jednu hodnotu. Př. 1 dřevorubec kácí 1 strom a 1 strom je kácen 1 dřevorubcem. Tento typ relace se používá na zúhlednění jedné z tabulek či vzniká jako chyba špatné relace.
2. Jedna ku mnoho (1-N) tabulky mají opět propojené primární klíče, avšak jedním směrem tabulka referencuje několik záznamů. Př 1 dřevorubec rube 1 strom, ale 1 strom může rubat vícero dřevorubců.
3. Mnoho ku mnoho (M-N) tabulky (pičo nečekaně propojené prim klíči), ale předešlá několikanásobná reference je oběma směry. Př: 1 dřevorubec rube několik stromů a 1 strom rube několik dřevorubců.

Modely databází – Hierarchická – data jsou uspořádávány podle typy a později jemněji filtrovány



Síťová – hierarchický model s přidanými mnohonásobnými vztahy (sety), záznamy můžou mít stejné hodnoty a naopak (voe je to jak kliče nebo takata relační sračka že místo záznamu tam mrdneš proměnou)

Relační – nejmladší model, data jsou ukládány do tabulek, ty se skládají z řádků a sloupců (literárně to co děláme prostě popiš mySql)

Objektová – data jsou ukládány do objektů, ty mají svou identity, nepoužívá se primární klíč, a korespondují s věcmi z reálného světa. Objekty se dají propojovat a dědit. (představ si OOP jako databázi)

Objektově relační – relační model s přidanými objekty

* Systém Řízení Báze Dat (SŘBD) jsou souhrny procedur a datových struktur, ty zajištují nezávislost, bezpečnost a modifikaci údajů. Pracují s databází.
* Databázové systémy – databáze jsou ukládány pomocí aplikací a také je možno je otevřít pouze pomocí těchto aplikací. Př Excell, Visual Basic, phpMyAdmin
* Dotazy mySQL – SELECT \* FROM (databáze) select vybírá a vypíše požadované záznamy z databáze, hvězdička znamená že chceme všechny záznamy, pokud bychom chtěli specifické informace ze záznamů zapišeme to způsobem SUM(Trzba)  AS Soucet slovíčko As nám uchová výpisy z příkazu select jako pole pod proměnou Součet, From udává odkuď tyto záznamy bereme.
  + - Dotaz můžeme doplnit i slovem Where – to funguje jako podmínka a vypíše nám tedy pouze záznamy splňující tuto podmínku
    - Taktéž se dá doplnit o ORDER to seřadí podle požadavku
  + UPDATE kde se dají SET a WHERE, které změní název sloupců či informací v nich
  + CREATE TABLE vytvoří tabulku s libovolným názvem a do závorek zatím vkládáme názvy a datové typy sloupců.
  + INSERT INTO zvolí sloupec a do závorek se vloží hodnoty, které vkládá do sloupce
  + DELETE FROM zapíšeme název tabulky a pomocí WHERE zvolíme jaké data z databáze smažeme
  + DROP TABLE/DATABASE/ATRIBUTE používá se ke smazání buďto celé tabulky, databáze či atributu (sloupce)
* Datová pole/typy: INTEGER – číslo, BOOLEAN – true nebo false, DECIMAL – des čárka
  + - TEXT – text
    - VARCHAR – znakový řetězec do 255 bajtů
    - DATE – datum, TIME – čas
    - SPATIAL – geometrické obrazce
* Optimalizace databází
  + - Zkontrolujeme, zda je použitý datový model nejlepší pro danou databázi
    - Použijeme nejmenší možný datový typ, ten určíme podle největší hodnoty
    - Indexovat databázi pro zrychlení hledání (indexy selectnou data a ty si předpřipraví k vypsání)
    - Partitioning – rozdělit tabulku na sérii menších tabulek, při vyhledávání se zaměříme na specifickou část tabulky spíše než na celou databázi
    - Škálovat fyzický server (kup lepší RAMKY lol)
* Normálové formy:
  + - Nultá normální forma – relace je v nulté podobě automaticky ve chvíli kdy máme vytvořenou databázi jelikož jedinou podmínkou je že aspoň jeden atribut musím mít více než jednu hodnotu
    - První normální forma – relace je v první formě když platí:
      * Atributy se nedají dále dělit
      * Jedinečné řádky
      * Přístup k řádkům relace podle obsahu atributů
    - Druhá normální forma:
      * Splňuje první
      * Neklíčové atributy nejsou parciálně závislé na žádném z klíčů z relace např:

![Obsah obrázku text

Popis byl vytvořen automaticky](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFZvanRhIFN0YWNoYQAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzc1AACSkgACAAAAAzc1AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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iigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAq6mL86Vc/2O1ut/5TfZzcoWi3443BSDjPoa4XwL4t8c+KNaji1vwyug2Nla7dQe7t5Fe4utxGLfLY8vADbju64z3rK+NE2oy+JvAmkWGtappEGqak9vcyaZdtBIynZ3HBxk4yDV6X4OTiJjZ/Erx3HOB+7abWPMQH3XaMj2yKAPS6K84+C/i7U/Evgi9fxFdJdXGk6hNZNqAAVLlECkSZGB0br7A+tX7f4z/Dy51oaXD4ps2uWbYCVcRE+0pXYf++qAO4orifi1cWtt4CuZJ/FD+GLlXDWd8lw8eZhyEITJdTyCuG45xxXP/BzxTZ+IbnVLq+8aw67rl5J5jWNvJOlvaxLwBDFKqn0LMF6kfUgHq1Fct4p+Jfg/wVcpbeJdchs7h1DCAI8sgB6EqikgcdSK1NL8T6LregtrWkajDeacqszTwncF2jLAjqCB2xmgDVorhLz41/DywjtHuvEsCC8jWSICGVm2noWUISmf9rFXPHHiJE+FOqa3oOsWluklpm31Nmdoow5C+YDGrsSN2RhTyB05IAOvormtFn0zwd4G03+2/EnmwCJA2qaveEG4dhuyWlbIzzhc8DjtXS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAeN/HPT/7V8XfDuw+13Vl9p1V4/tNnL5c0WfL+ZGwcMOxrI+Jfw11vw14bbWtL8XeK9f06zO/U9K1DV5CZ4P4irLjGByQQeMntg+n+L/A/wDwlXiPwxqv9ofZP7AvTd+V5G/z87flzuG37vXB611UkaSxtHKqujgqysMhgeoIoA8M+IV7o1p+yyJPh9ELPSL0QxhUJDKrSDzFdic7twKsSTnkZqe/i8YX/gGTwnH8FYItNa1MEIHiG1PlHbhZB8vLA4bPUnvXU+GvhBZ6DoviHw7d6gdS8M6xKZIdMkhKmzyc4WTec9FwcDBUHrnOe/wi8Sy6T/YEvxN1RvDuzyTZ/YovPMWMbPtGd2McdMY7UAYl94S8U3fhT4etcXOmReMfD4lKaRq1wjreADGflY7mVI1YEHjJJIIq7p/isP8AE7Ql+JXgOTQvEUm+20zVYLnzYZSwwyZU45zgA7sbu2TXU6/8KtL1PRdDtNFvbrQ7zw9xpl9bHdJCMYIbd98HAyCefxINbSfhlqT+JtP1zxz4vuvE1zpbM9jEbOO1hhcjG8omdzehzQB5x8ONY8Vxa/4v1vSPAC+Jr261qeGfUJNXhtnhVcYgCSAsAAfoQQP4a6Hwnoviqw8ReNtU1XwmPDGj6tpjS/ZI7+G5jFyi4LDYRgsCxPy4yOvSum1X4YX0fia+13wJ4sufC11qRD30S2iXUE78/vPLcgBjnk/4mrfhj4ZxaBb61cXus3er63rcRju9TugM42lVCoDhVGeme3XAAABjfAnw9pUfwQ0tTYwSf2lHK94XjB88mRh83qAAAB6CuB0sGP8AY51623s0dtPNFHu6hRcqf5kn8a9w8DeF/wDhC/BOm+Hvtn237DGyfaPK8vfli2duTjr6muXt/hL5Hwh1PwP/AG1u+3zSS/bfsmPL3SB8bN/OMY+8KAN6fwnonjPwDpWl+JbL7bZiCCURea8fziPAOUIPc966muS8V+DtT17wTaaFovia70C5tjF/p9orB3VFKlcK6kA8Hr2rraACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOd8W+PfDfgWG1l8Val9gS7ZlhPkSS7yuM/cU46jrXNJ+0B8MncKvicAscDdY3IH5mPArC+Oeq2eh+Lvh3qmqTeRZ2mqvLPLsLbEHlknCgk/gK1rn48fDS+tntYtTk1VpVKiyi0yd2n/2QrIAfxNAHommapY6zpsOoaTdw3lpOu6OeFwysPqPyq1XjHw1upfhd8F9Y1/xVZT6fZvfS3tpprD95DE+xY4sHoS3Y9M5PersnjP4q2OgnxVqPhfQ/7FWL7TLpsVxL9vihxkksfkJC84xn2BoA9G1bxJpWhXmm2uq3XkTapcC2s18t282Q/wAOVBA+pwK1K8h8f6xZ+INT+Fer6ZIZLS91qKaJiMHayg4I7HsR61t+IPGvie88cXPhP4faXp815YW6T31/qzyLbw7+VQBPmYkc5Hv6GgD0OivPPB3jnxFceOtQ8HeOtN0+11O0sRqEd1psrG3mh3hScP8AMvLDr6HgcZytP8e/EDxut1qvw90TRF0GCZ4oJtXmlEt+EOCYwmAuSCBu49+DQB6JrviXSfDUVlJrd39mS+u0src+W775nztX5QcZ2nk4HvWpXjesfE0a34G8LavJ4esTdTeKINMu7LVIPPFnMN+54zxhxgbW7bjxXslABRXk83j3x5q/xF8SeFfCGmaI50d4mF3qJlWNY2QHa2wks7EnGAAApzmrWo+PvFmpeKn8J+BtK0u51bTraKTV76/kcWltI6g+WoX5mPXv/I0AenUV554X8e69J4un8G+N9KtNP177KbqzuLORntb1BwSufmXB7HnAPTjOL4k8R/Fzwn4futZ1u4+H1vZ2ybmb/TcseyqO7E8AUAeu1l+I/Euk+EtDl1fxBd/ZLGFlV5fLeTBYgDhQT1I7VwKfEvxFonwssNd8X6LbnxDq90tvpulWYaPzGk/1YfczFScEnnuBwa4f40ar8RIvhZeW3jfR9G+x3ssPl3OjyyE2riQMFlV85yARuU4zgd6APdPEfifSPCeljUfEF0bSzMqxGbyXdVZjgbtoO0Z4ycDpzSaV4q0bW9X1HTNJvftV1pjKl2I432RswyF8zG0n2BJHeuQ+J3ih2ubbwHo+hwa7q2uwOXt7qQpBDb8gySFfmxkHGCDxwc4BxvA99qPwz1nTfBnibw/pGm2msSyGyv8ARpppIZLjqUk84l9xGACT6AcdAD0vTPEmlazqmp6dpt1511pUqw3kfluvlOwyBkgA8Dtmo9C8WaL4ludRg0O8N22m3BtrplhdUSQZyodlCsRj+Ent6iuH+GY3fE34mg5wdSgHBx/yzasPwf4zn0L9l+bxTo2k6bZ3NsZXS2RZWhZvtGwlt0hdiQc5L5/DigD2yivHNX+JfxC0rwvF42m8N6QnhgiOR7RppDf+S5AWQ4+Rc7gdvJGee5qTXfiR4/0jw6vjX/hHNJXwr+7kNpJPIdQELsAshx8i53KdvJGeehNAHr9FcB4w+Il7Y6po/h/wXpkeq69rMH2mFbhykNvB/wA9ZCOccHgeh5zgGtpnjfxXofjDTfD/AMSdN0uIawWSw1LR5JDA0oGfKZZPmBPY9z+OAD0iiivKrTx7468Zahf3Pw70fRW0KwuHthc6tNIr3zJ97ytnCj0LZH6gAHoOk+JNK1281K10q68+bS7g214vluvlSD+HLAA/UZFa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* + - Třetí Normální forma:
      * Splňuje 2 formu - Neklíčové atributy nejsou transitivně závislé na žádném z klíčů z relace (atribut nesmí být závislý na atributu, který je závislý na klíči)