

GEODATABÁZE

DBMS

- **SYSTEM ŘÍZENÍ DATABÁZE**
- **MECHANISMUS**
 - **SOUBOROVÉ**
 - **SÍŤOVÉ A HIERARCHICKÉ**
 - **RELAČNÍ A POSTRELAČNÍ**
 - **OBJEKTOVÉ**

SLOŽKY

- DATA
- DATABÁZOVÝ STROJ
- DEFINIČNÍ JAZYK
 - SLOVNÍK DAT
- DOTAZOVACÍ JAZYK
- INDEX
- METADATA

DATA

- **DATOVÉ TYPY**

- **ZNAKY**

- **ČÍSLA**








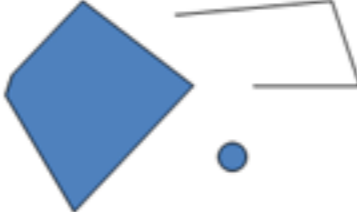
- **VYŠŠÍ DATOVÉ TYPY (DATUM, GEOMETRIE ...)**

- **ORGANIZAČNÍ JEDNOTKY**

- **PROSTORY, TABULKY, OBJEKTY ...**

PROSTOROVÁ DATA

- SOUBOROVÉ SYSTÉMY
- HYBRIDNÍ
 - GEOMETRIE - LINK-ATRIBUTOVÁ DATA
- UNIFIKOVANÁ
 - UŽIVATELSKÉ DATOVÉ TYPY

POINT	MULTIPOINT	LINESTRING	MULTILINESTRING
 <p data-bbox="562 682 699 714">e.g. address</p>	 <p data-bbox="891 682 1221 714">e.g. all Microsoft UK address</p>	 <p data-bbox="1426 682 1550 714">e.g. street</p>	 <p data-bbox="1797 682 2016 714">e.g. street-network</p>
POLYGON	POLYGON (with up to 65,000 holes)	MULTIPOLYGON	GEOMETRYCOLLECTION
 <p data-bbox="562 1207 699 1239">e.g. building</p>	 <p data-bbox="919 1207 1221 1239">e.g. landform with a lake</p>	 <p data-bbox="1303 1207 1660 1239">e.g. a group of islands (Hawaii)</p>	 <p data-bbox="1797 1207 2044 1239">e.g. "How to find us"</p>

SLOVNÍK DAT

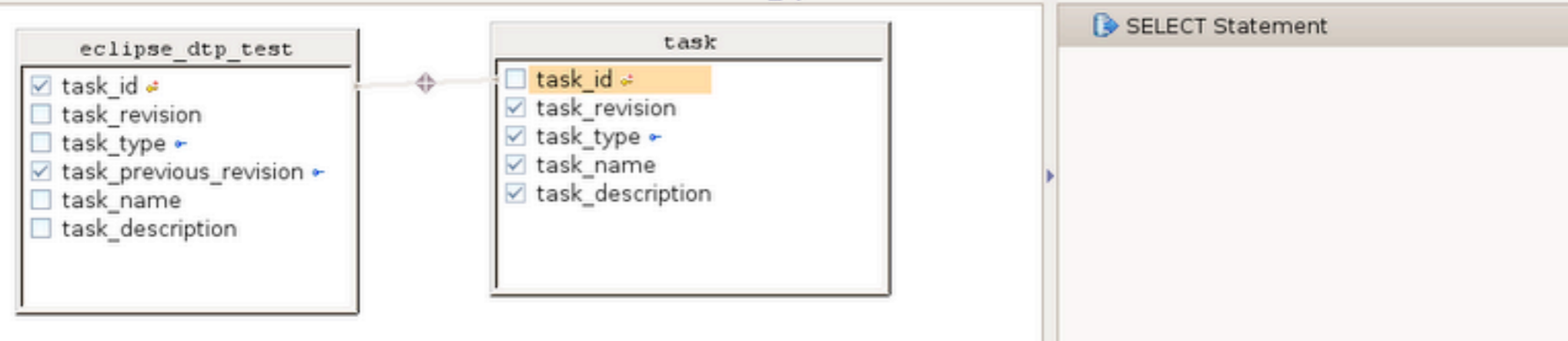
- POPIS STRUKTURY
- INTEGRITNÍ OMEZENÍ
- PRÁVA
- TRIGGERY...

DOTAZOVÁNÍ

- PREDIKÁTY
- LOGICKÉ SPOJKY
- FUNKCE
- AGREGACE
- OMEZENÍ

SQL

```
SELECT "public"."eclipse_dtp_test"."task_id", "public"."eclipse_dtp_test"."task_previous_revision",  
       "public"."task"."task_revision", "public"."task"."task_type",  
       "public"."task"."task_name", "public"."task"."task_description"  
FROM  
       "public"."task" JOIN "public"."eclipse_dtp_test" ON "public"."task"."task_id" = "public"."eclipse_dtp_test".  
ORDER BY "public"."eclipse_dtp_test"."task_id" ASC
```

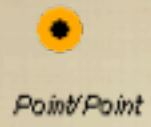


DISTINCT

Column	Alias	Output	Sort Type	Sort Order
"public"."eclipse_dtp_test"."tas		<input checked="" type="checkbox"/>	Ascending	1
"public"."eclipse_dtp_test"."tas		<input checked="" type="checkbox"/>	scending	
"public"."task"."task_revision"		<input checked="" type="checkbox"/>	Ascending	
"public"."task"."task_type"		<input checked="" type="checkbox"/>	Descending	
"public"."task"."task_name"		<input checked="" type="checkbox"/>		

Edit SQL Results

OK Cancel



Point/Point



Linestring/Linestring



Multipoint/Multipoint



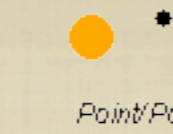
Polygon/Polygon



Multiline string/Multiline string



Multipolygon/Multipolygon



Point/Point



Point/Multipoint



Point/Linestring



Point/Polygon



Multipoint/Multipoint



Multipoint/Linestring



Multipoint/Polygon



Linestring/Polygon



Polygon/Polygon



Point/Linestring



Linestring/Linestring



Multipoint/Linestring



Point/Polygon



Multipoint/Polygon



Linestring/Polygon

EQUAL

TOUCH

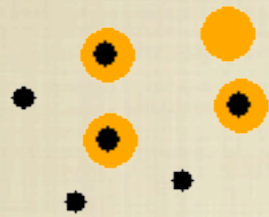
DISJOINT



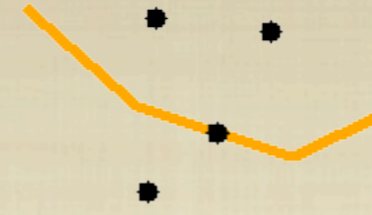
Linestring/Linestring



Polygon/Polygon



Multipoint/Multipoint



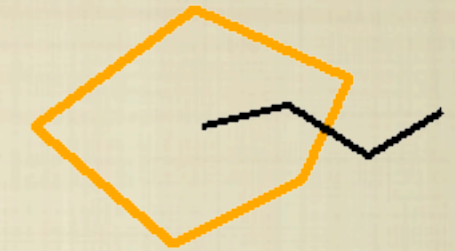
Multipoint/Linestring



Multipoint/Polygon



Linestring/Linestring



Linestring/Polygon

OVERLAP



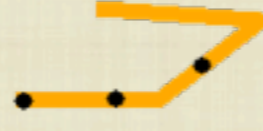
Point/Multipoint



Point/Linestring



Multipoint/Multipoint



Multipoint/Linestring



Point/Polygon



Multipoint/Polygon



Linestring/Linestring



Linestring/Polygon



Linestring/Polygon

WITHIN

CROSS



Multipoint/Point



Multipoint/Multipoint



Linestring/Point



Linestring/Multipoint



Polygon/Point



Polygon/Multipoint



Linestring/Linestring

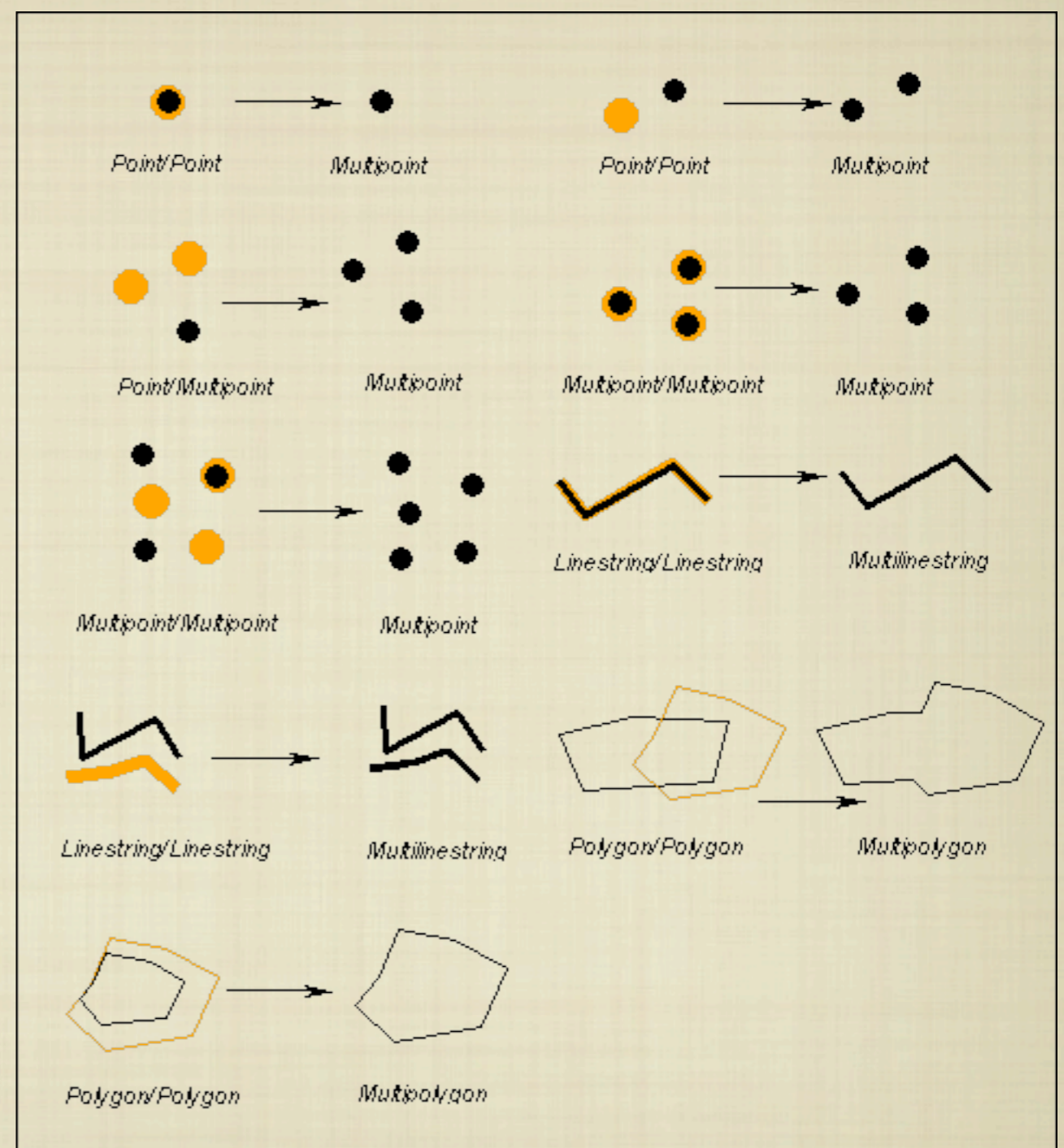
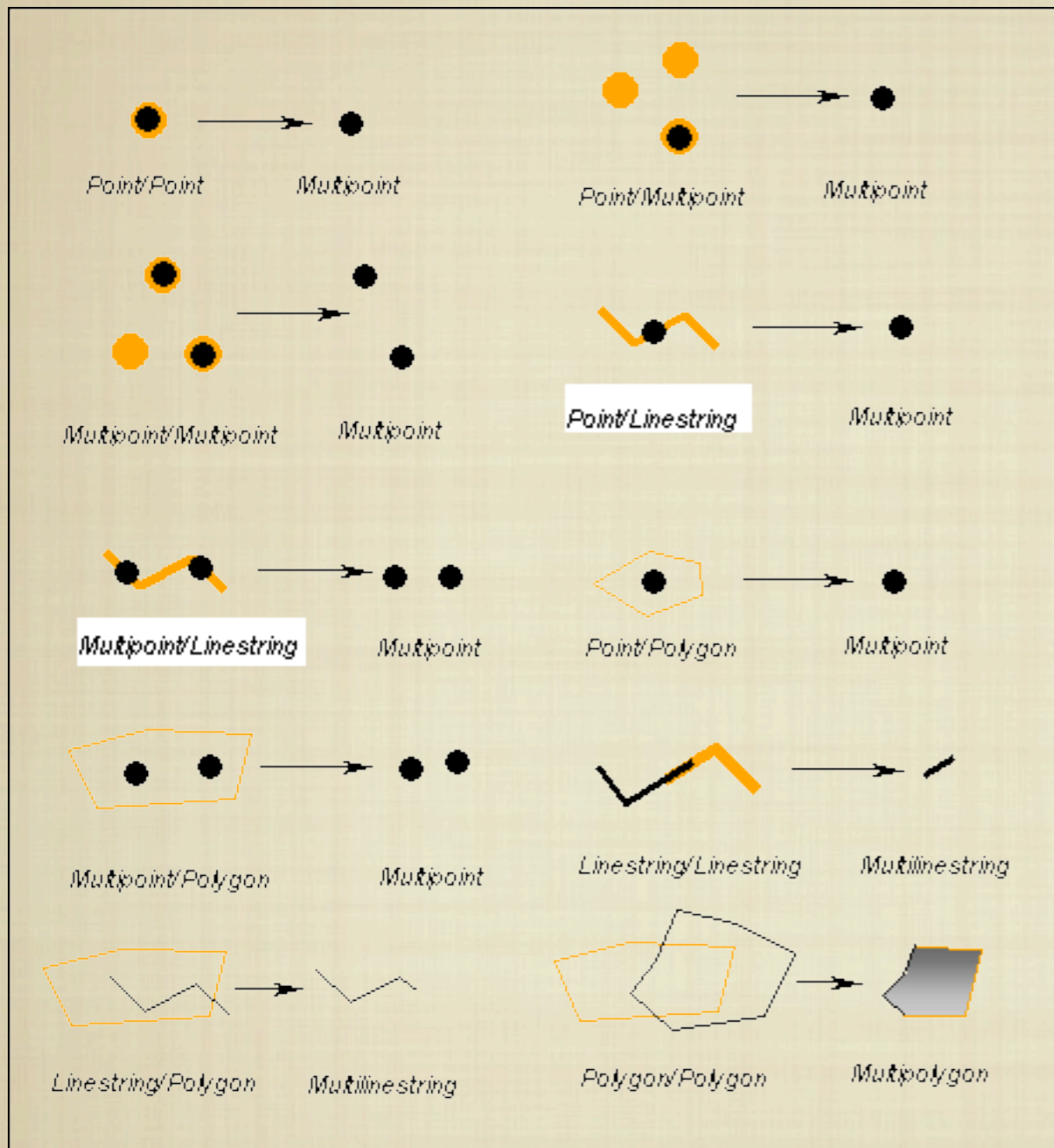


Polygon/Linestring



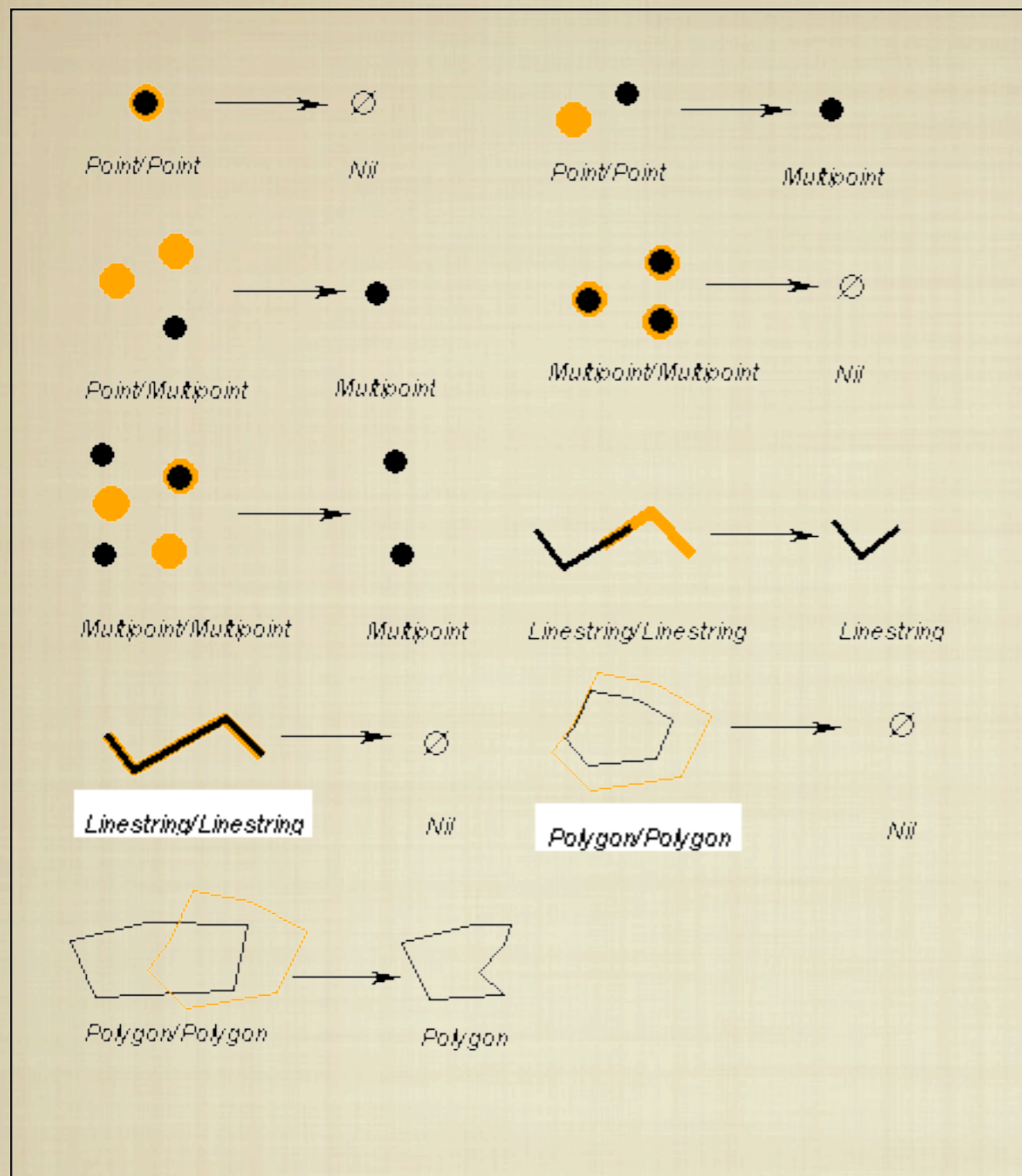
Polygon/Polygon

CONTAINS

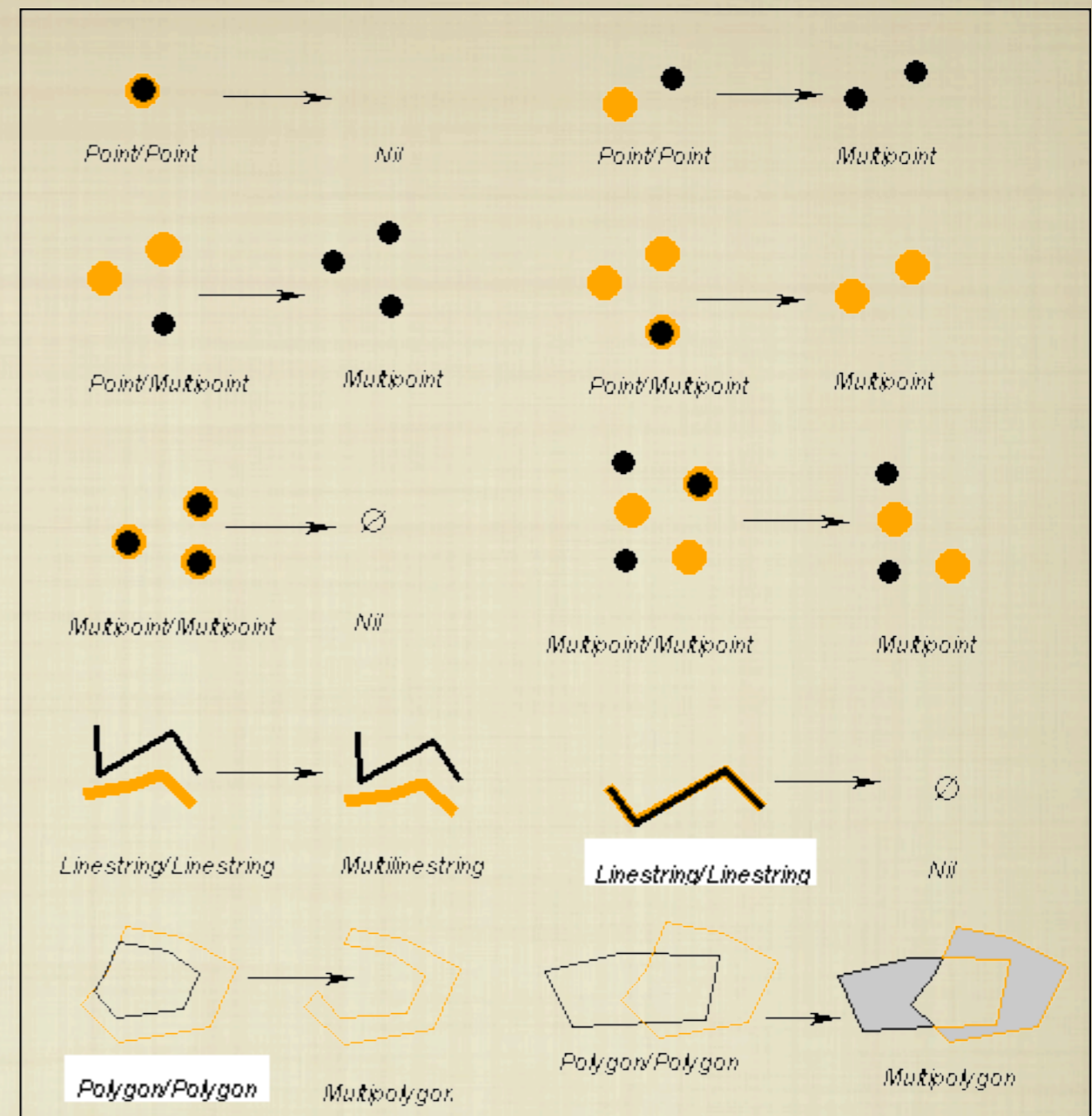


INTERSECTION

UNION



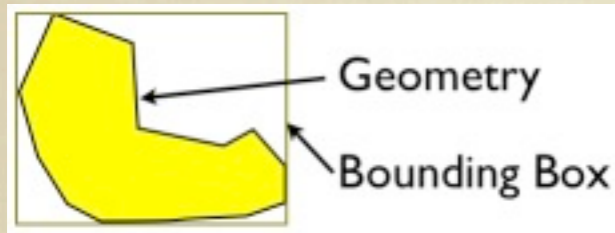
DIFFERENCE



SYMMETRIC DIFFERENCE

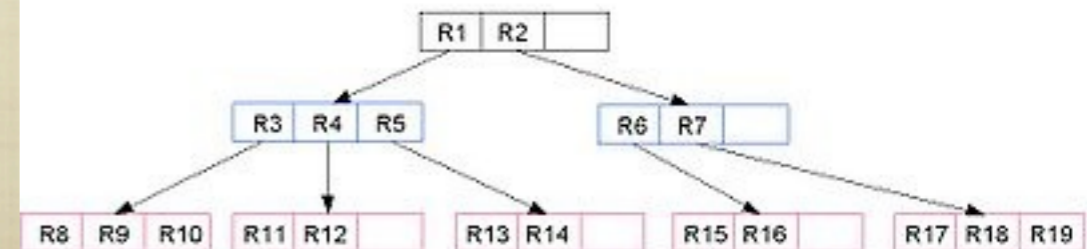
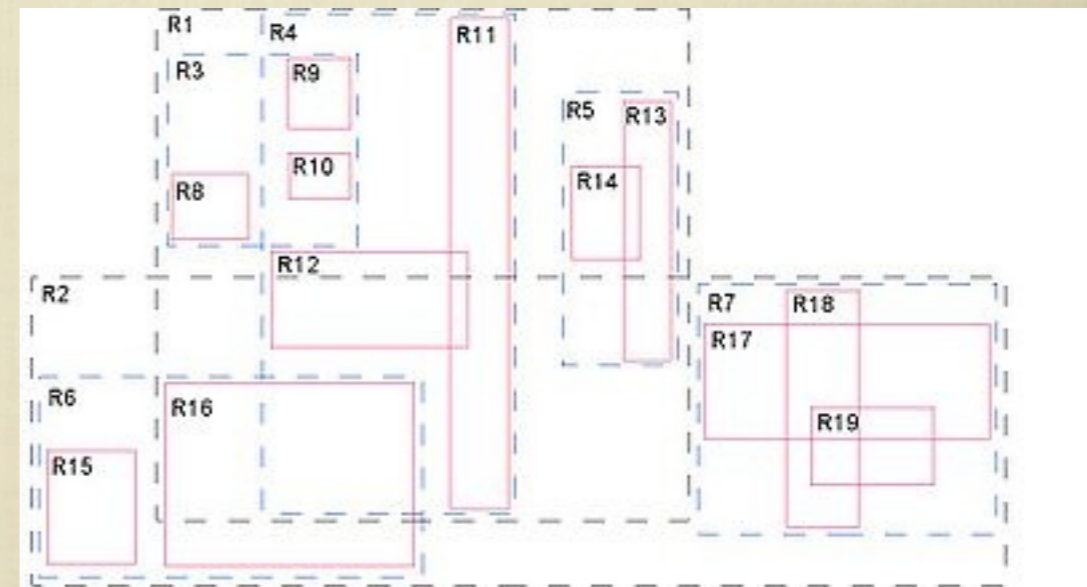
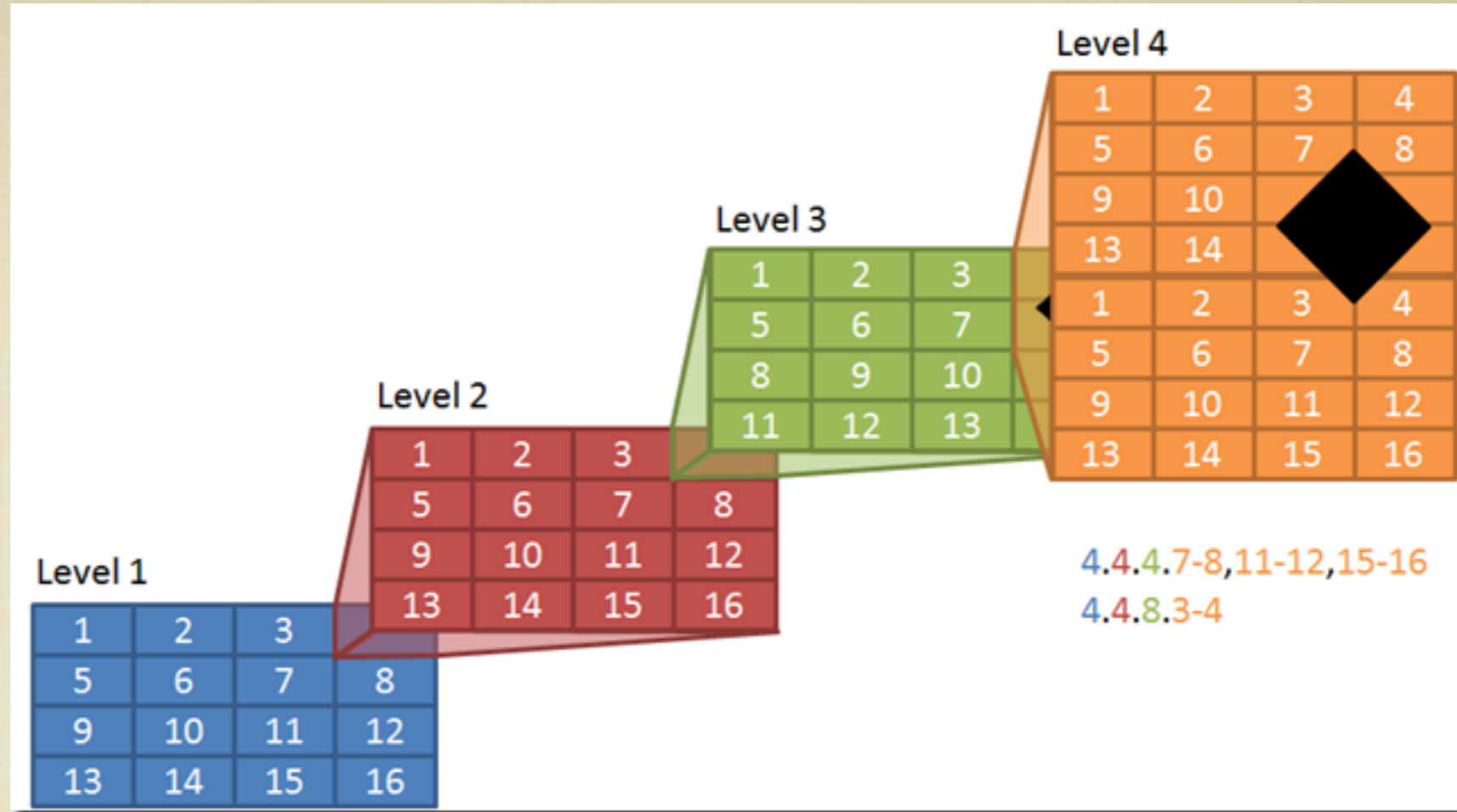
INDEX

- MBR



- SNÍŽIT POČET OPERACÍ

- TILES, QUAD-TREE, R-TREE



METADATA

- AUTOR
- ÚDRŽBA
- KVALITA
- VHODNOST
- DOSTUPNOST
- KATALOGIZACE