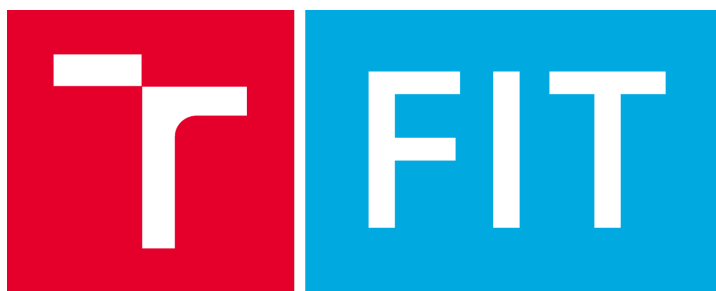


# **VYSOKÉ UČENIE TECHNICKÉ V BRNE**

Fakulta informačných technológií



**Pokročilé databázové systémy**  
**2016/2017**

**Aplikácia správy pozemkov**  
**(TSQL dotazy)**

Filip Gulán (xgulan00)

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Jan Herec (xherec00)

Marek Marušic (xmarus05)

**Select na získání datumů, kdy došlo k nějakým změnám entity nebo pozemků**

**(uvažujeme pouze změny pouze na vybraných vrstvách mapy):**

```
NONSEQUENCED VALIDTIME SELECT valid_from FROM (  
NONSEQUENCED VALIDTIME SELECT valid_from FROM estates WHERE id IN  
(NONSEQUENCED VALIDTIME SELECT DISTINCT MIN(id) FROM estates GROUP  
BY valid_from)  
UNION  
NONSEQUENCED VALIDTIME SELECT valid_from FROM related_spatial_entities  
WHERE id IN (NONSEQUENCED VALIDTIME SELECT DISTINCT MIN(id) FROM  
related_spatial_entities WHERE layer IN (?) GROUP BY valid_from)) ORDER BY  
valid_from ASC
```

**Select na získanie aktuálneho vlastníka danej nehnuteľnosti:**

```
VALIDTIME SELECT freeholders.first_name, freeholders.surname FROM freeholders,  
estates WHERE freeholders.id = estates.freeholders_id AND estates.id = ?
```

**Select na získanie histórie majiteľov pozemkov:**

```
NONSEQUENCED VALIDTIME SELECT * FROM freeholders WHERE id IN  
(NONSEQUENCED VALIDTIME SELECT freeholder_id FROM estates WHERE id = ?);
```

**Počet pozemkov, ktoré vlastnili majitelia s rovnakým menom (napr Filip) v danom čase.**

```
NONSEQUENCED VALIDTIME SELECT COUNT(EID) as cnt FROM (  
VALIDTIME PERIOD [zaciatok, koniec)  
SELECT FREEHOLDERS.FIRST_NAME as FNAME, ESTATES.ID as EID FROM  
FREEHOLDERS  
LEFT JOIN ESTATES ON FREEHOLDERS.ID=ESTATES.FREEHOLDERS_ID  
WHERE FREEHOLDERS.FIRST_NAME = ?  
) group by FNAME;
```

**Koľko krát majiteľ vlastnil zvolený pozemok v danom čase (rátajú sa iba intervaly, ktoré na seba nenadväzujú čiže napr. keď pozemok vlastnil majiteľ 1, potom majiteľ 2 a potom znova majiteľ 1)**

```

NONSEQUENCED VALIDTIME SELECT COUNT(*) as cnt FROM (
VALIDTIME PERIOD [zaciatok, koniec)
SELECT
FREEHOLDERS.ID as FID, ESTATES.ID as EID FROM FREEHOLDERS
LEFT JOIN ESTATES ON FREEHOLDERS.ID=ESTATES.FREEHOLDERS_ID
WHERE ESTATES.ID = ? AND FREEHOLDERS.ID = ?
)

```

**Počet majiteľov, ktorý vlastnili zvolený pozemok v danom časovom intervale.**

```

NONSEQUENCED VALIDTIME SELECT COUNT(FID) as cnt FROM (
VALIDTIME PERIOD [zaciatok, koniec)
SELECT
FREEHOLDERS.ID as FID, ESTATES.ID as EID FROM FREEHOLDERS
LEFT JOIN ESTATES ON FREEHOLDERS.ID=ESTATES.FREEHOLDERS_ID
WHERE ESTATES.ID = ?
)
NONSEQUENCED VALIDTIME SELECT * FROM freeholders WHERE id = ?;

```

**Mazání v časovém intervalu pro objekty s daným id:**

```

VALIDTIME PERIOD [?-) DELETE FROM related_spatial_entities WHERE (id = ?);
VALIDTIME PERIOD [?-) DELETE FROM estates WHERE (id = ?);

```

**Editácia v časovom intervale pre dané id:**

```

VALIDTIME PERIOD [?-) UPDATE related_spatial_entities SET name=?, description=?,
geometry=?, WHERE (id = ?);
VALIDTIME PERIOD [?-) UPDATE estates SET name=?, description=?, geometry=?,
freeholders_id WHERE (id = ?);

```