# 1 Dokumentace temporálních dotazů

Dotaz v TSQL2:

```
SELECT * FROM pokoje
WHERE id NOT IN (SELECT pokoj FROM rezervace)
VALIDTIME ['2013-12-24' - '2013-12-26']
```

Dotaz v SQL:

```
SELECT * FROM pokoje
WHERE id NOT IN (
  SELECT pokoj FROM rezervace WHERE (
    (od BETWEEN '2013-12-24' AND '2013-12-26') OR
    (do BETWEEN '2013-12-24' AND '2013-12-26') OR
    ('2013-12-24' BETWEEN od AND do) OR
    ('2013-12-26' BETWEEN od AND do)
  )
)
```

Dotaz v TSQL2:

```
SELECT nvl(avg(pocet),0) FROM (
  SELECT zakaznik.id, count(*) as pocet
  FROM zakaznik LEFT JOIN rezervace_sluzeb ON rezervace_sluzeb.zakaznik = zakaznik.id
  WHERE VALID(rezervace_sluzeb) PRECEDES DATE NOW
  GROUP BY zakaznik.id
)
```

Dotaz v SQL:

```
SELECT nvl(avg(nvl2(hodina, 1, 0)),0) as prumer
  FROM zakaznik LEFT JOIN sluzby_rezervace ON sluzby_rezervace.zakaznik = zakaznik.id
  WHERE sluzby_rezervace.den <= trunc(sysdate) OR sluzby_rezervace.den IS NULL
```

Dotaz v TSQL2:

```
SELECT jmeno
FROM zakaznik(jmeno) AS L
WHERE CAST(VALID(L) AS INTERVAL DAY) > ALL (SELECT CAST(VALID(L2) AS INTERVAL DAY)
FROM zakaznik(jmeno) L2
WHERE L.jmeno != L2.jmeno) AND VALID(pacienti) PRECEDES DATE NOW
```

Dotaz v SQL:

```
select * from rezervace WHERE trunc (do - od) in (select max (pocet) as maximum from
```

```
CREATE OR REPLACE PROCEDURE rezervace_smaz_v_obdobi (
  datum_od DATE, datum_do DATE ) IS
new_end DATE;
new_start DATE;
tmp_zakaznik NUMBER;
tmp_pokoj NUMBER;
tmp_od DATE;
tmp_do DATE;
tmp_id NUMBER;
CURSOR cursor1 IS
        SELECT id, zakaznik, pokoj, od, do
        FROM rezervace WHERE od < datum_od AND do > datum_do;
CURSOR cursor2 IS
        SELECT id, zakaznik, pokoj, od, do
        FROM rezervace WHERE od < datum_do AND do > datum_od;
BEGIN
IF datum_od<=datum_do THEN
    new_end := datum_od - 1;
    new_start := datum_do + 1;
    DELETE FROM rezervace WHERE od >= datum_od AND do <= datum_do;
    UPDATE rezervace SET do = new_end
        WHERE od < datum_od AND (do BETWEEN datum_od AND datum_do);
    UPDATE rezervace SET od = new_start
        WHERE do > datum_do AND (od BETWEEN datum_od AND datum_do);
    OPEN cursor1;
    LOOP
        FETCH cursor1 INTO tmp_id, tmp_zakaznik, tmp_pokoj, tmp_od, tmp_do;
        EXIT WHEN cursor1%NOTFOUND;
        INSERT INTO rezervace (zakaznik, pokoj, od, do)
            VALUES(tmp_zakaznik, tmp_pokoj, new_start, tmp_do);
        UPDATE rezervace
            SET do = new_end WHERE id = tmp_id;
    END LOOP;
    CLOSE cursor1;
ELSE
    new_end := datum_do - 1;
    new_start := datum_od + 1;
    DELETE FROM rezervace WHERE od >= datum_do AND do <= datum_od;
    UPDATE rezervace SET do = new_end
        WHERE od < datum_do AND (do BETWEEN datum_do AND datum_od);
    UPDATE rezervace SET od = new_start
        WHERE do > datum_od AND (od BETWEEN datum_do AND datum_od);
    OPEN cursor2;
    LOOP
        FETCH cursor2 INTO tmp_id, tmp_zakaznik, tmp_pokoj, tmp_od, tmp_do;
        EXIT WHEN cursor2%NOTFOUND;
        INSERT INTO rezervace (zakaznik, pokoj, od, do)
            VALUES(tmp_zakaznik, tmp_pokoj, new_start, tmp_do);
        UPDATE rezervace SET do = new_end WHERE id = tmp_id;
    END LOOP;
    CLOSE cursor2;
END IF;
END;
/
```