

# **VIKMB55**

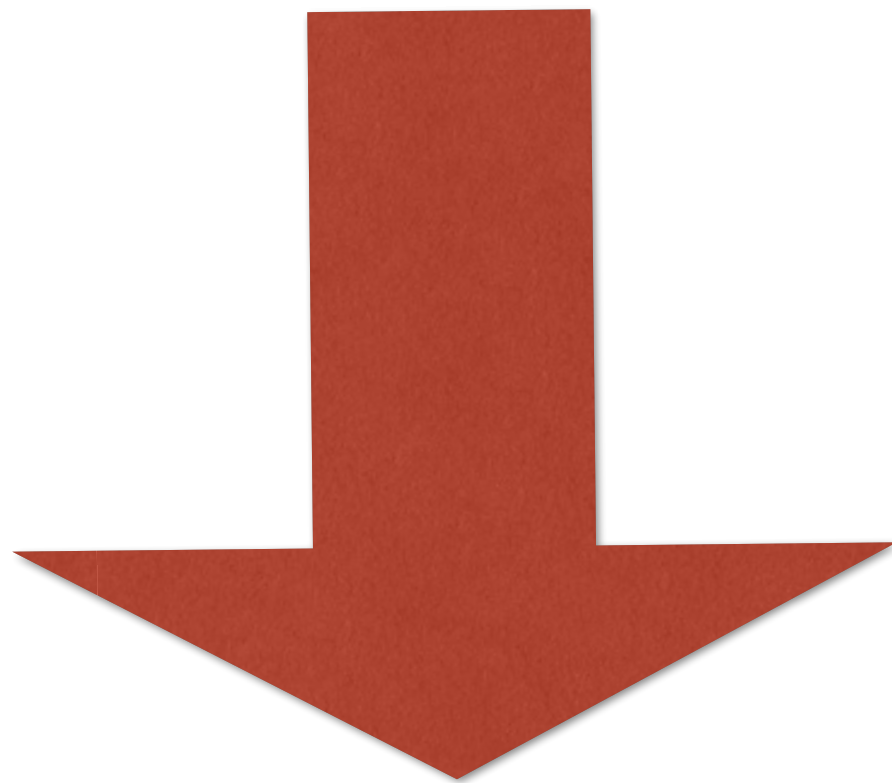
# **SQL pro pokročilé a**

# **datové modelování**

Hodina č. 3

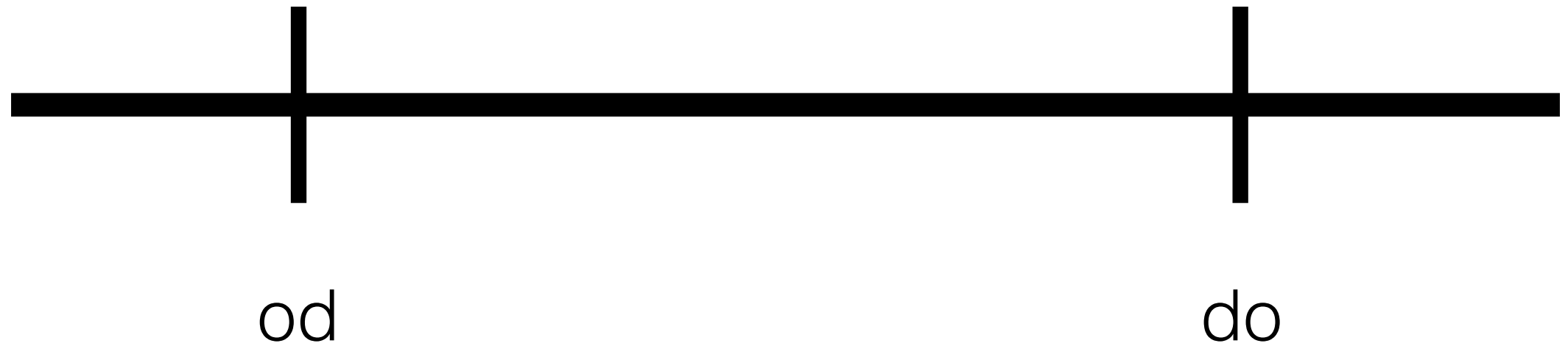
# Feedback na DÚ

**58 %**

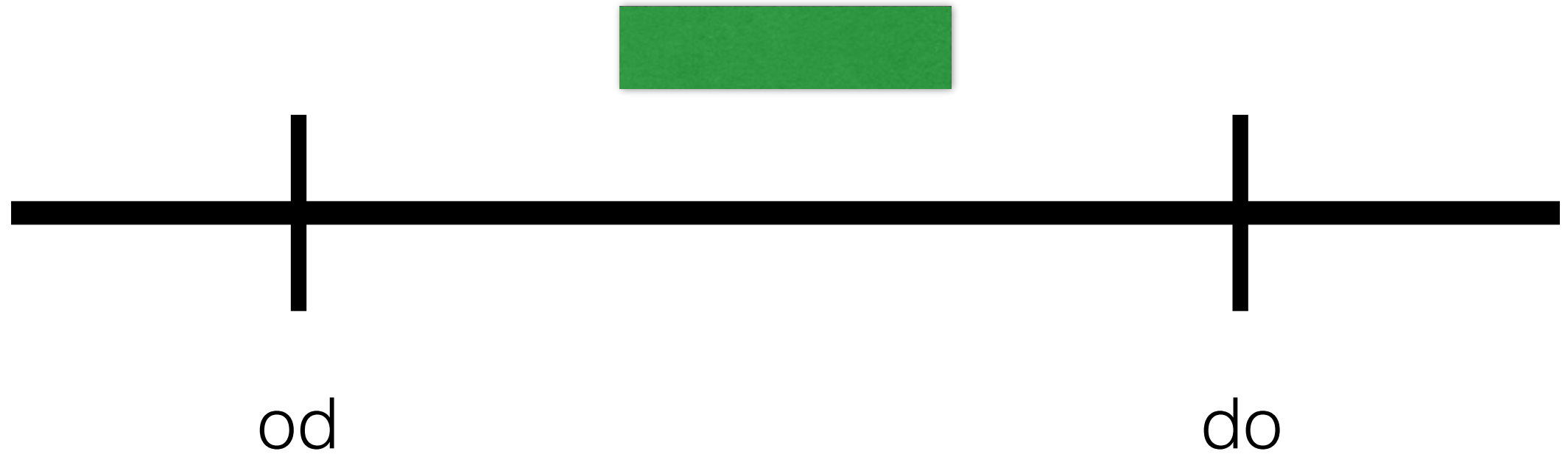


# Kalendář akcí

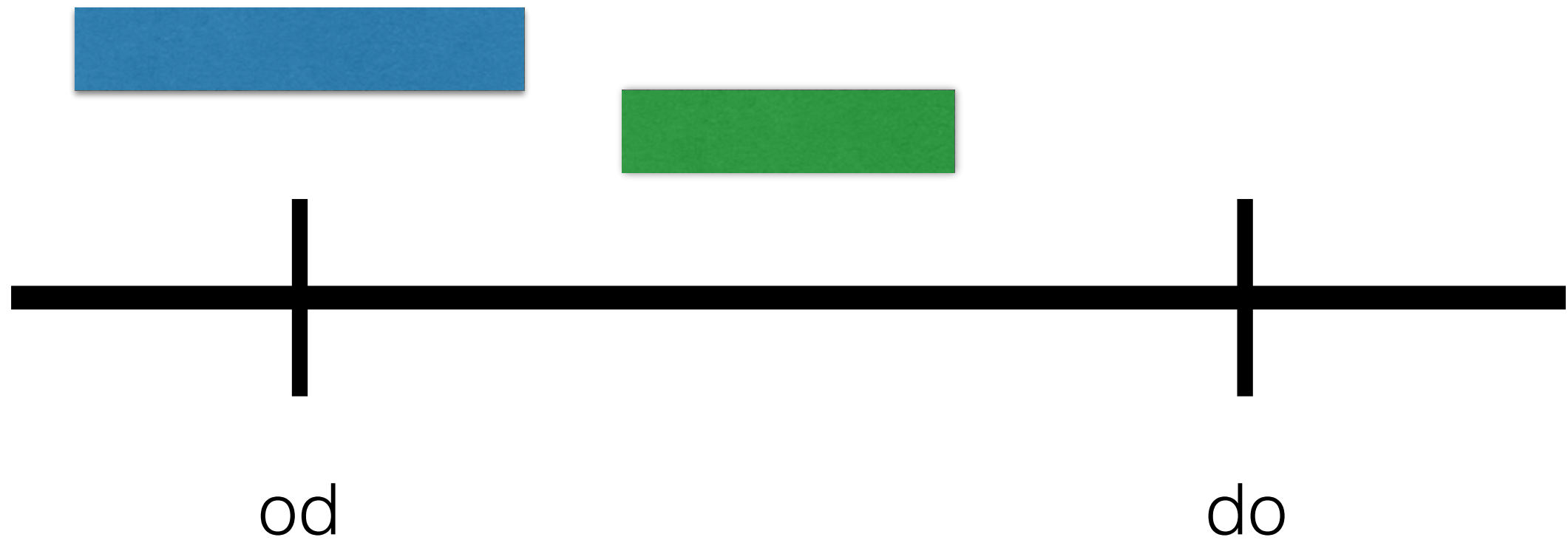
# Kalendář akcí



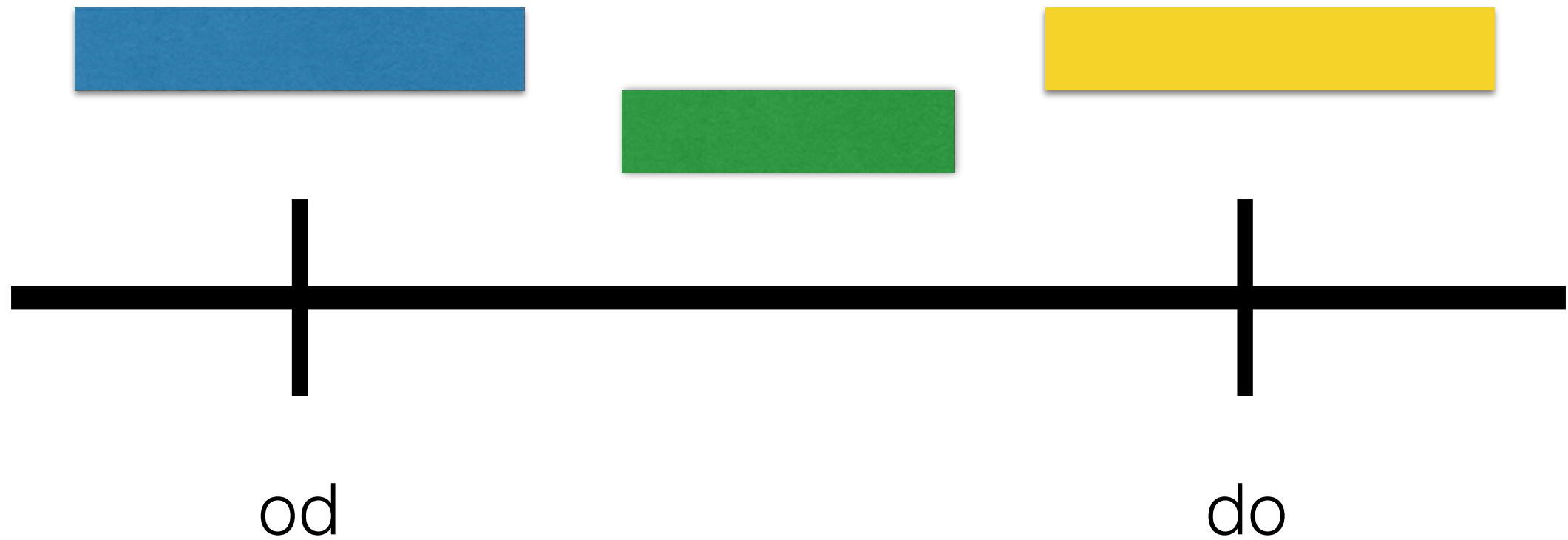
# Kalendář akcí



# Kalendář akcí

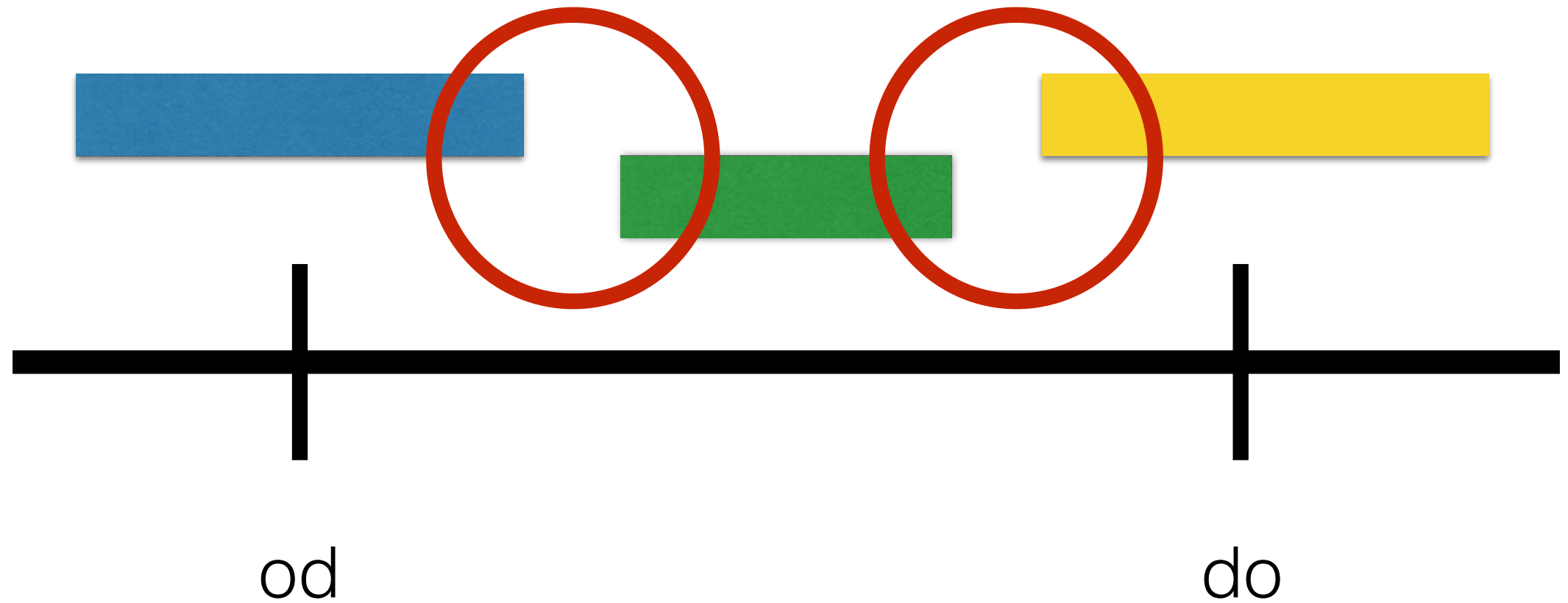


# Kalendář akcí

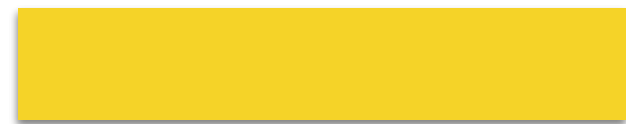
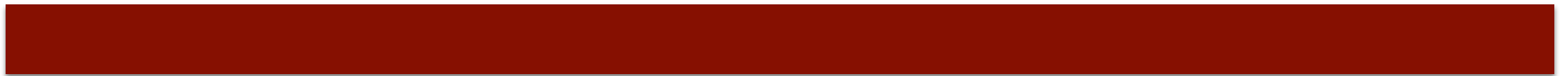




# Kalendář akcí



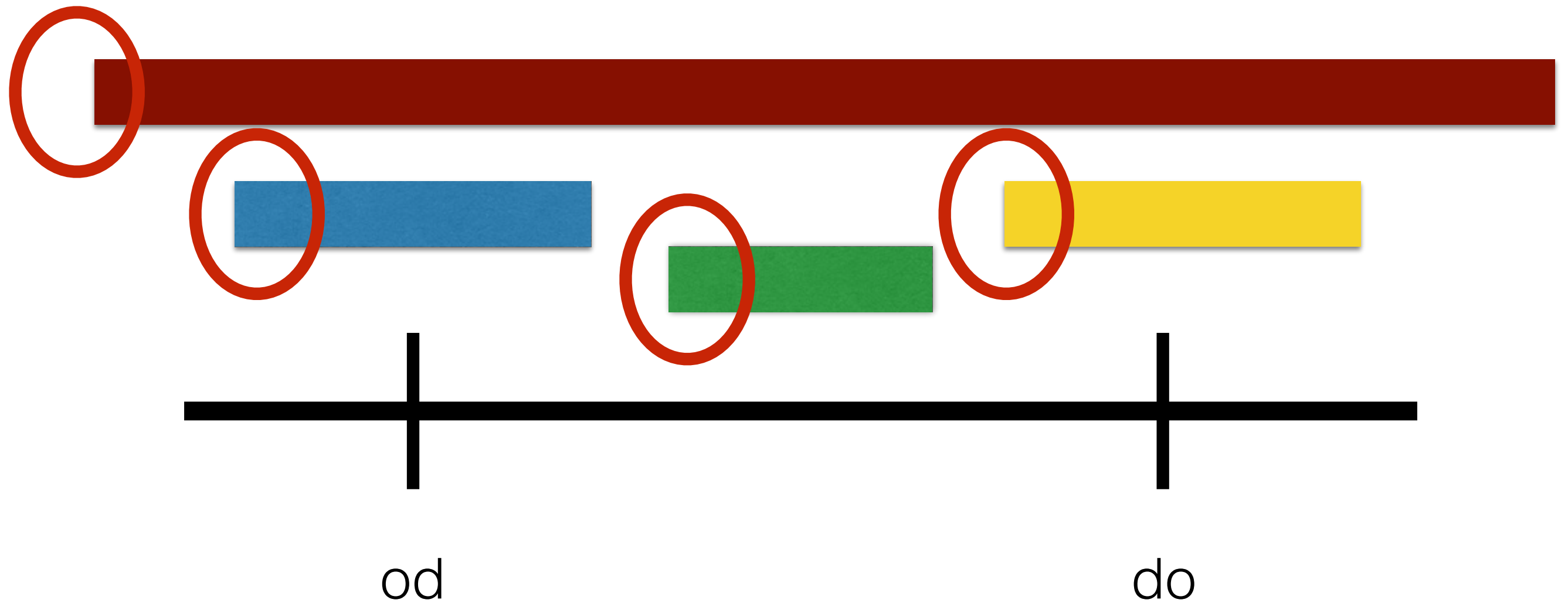
# Kalendář akcí



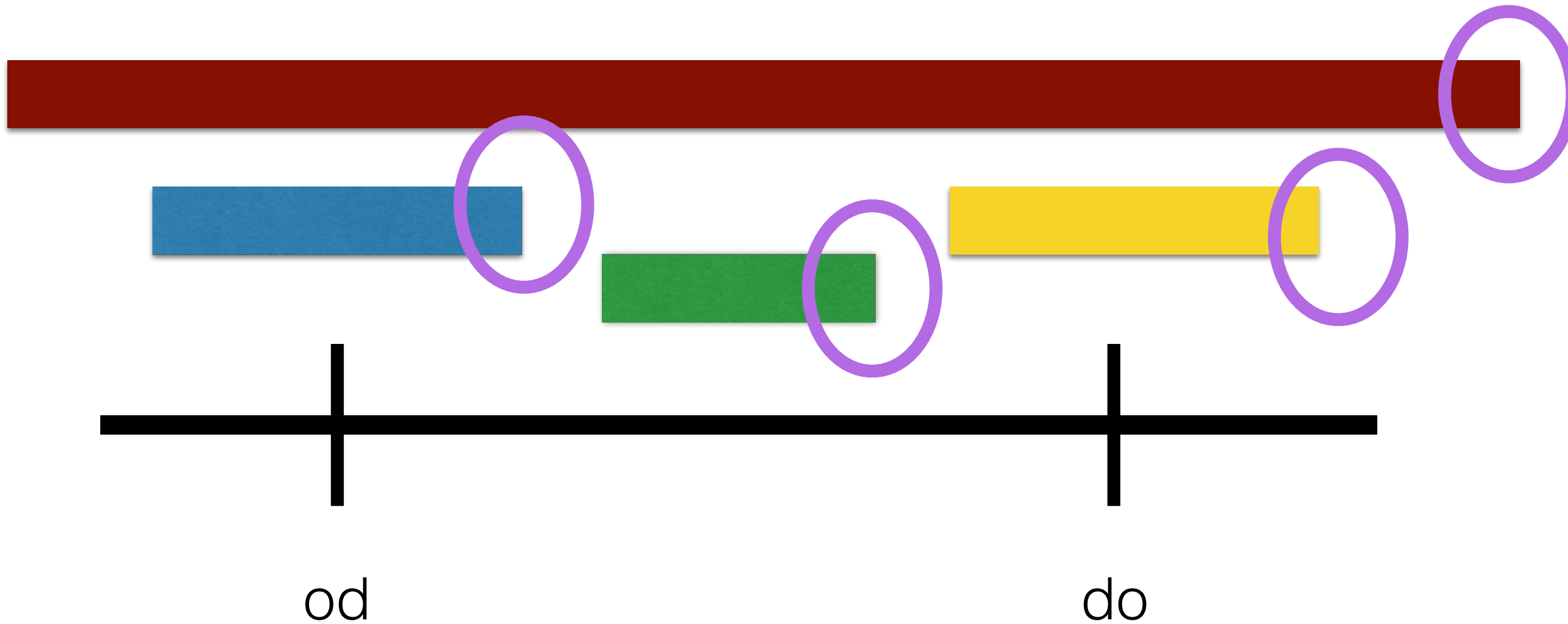
od

do

# Kalendář akcí



# Kalendář akcí



```
SELECT * FROM kalendar_akce  
WHERE zacatek <= "2014-03-09 23:59:00"  
AND konec >= "2014-03-03 00:00:00"
```

K I N O A R T

# Projekce

**id\_projekce**      **id\_sal**

1	1
---	---

2                      2

3	1
---	---

4                      1

# Vstupenky

**id\_vstupenka**      **id\_projekce**

1	1
---	---

2                      1

3	1
---	---

4                      2

5	3
---	---

6                      2

# INNER JOIN

## Projekce

**id\_projekce**      **id\_sal**

1	1
2	2
3	1
4	1

## Vstupenky

**id\_vstupenka**      **id\_projekce**

1	1
2	1
3	1
4	2
5	3
6	2



# INNER JOIN

<b>id_projekce</b>	<b>id_sal</b>	<b>id_vstupenka</b>
1	1	1
1	1	2
1	1	3
2	2	4
3	1	5
2	2	6

# LEFT JOIN

<b>id_projekce</b>	<b>id_sal</b>	<b>id_vstupenka</b>
1	1	1
1	1	2
1	1	3
2	2	4
3	1	5
2	2	6
4	1	NULL

# GROUP BY id\_sal

id_projekce	id_sal	id_vstupenka
1	1	1
1	1	2
1	1	3
2	2	4
3	1	5
2	2	6
4	1	NULL

# COUNT(\*) vs COUNT(id\_vstupenka)

id_projekce	id_sal	id_vstupenka
1	1	1
1	1	2
1	1	3
2	2	4
3	1	5
2	2	6
4	1	NULL

# COUNT(\*) vs. COUNT(id\_projekce) vs. COUNT(id\_vstupenka)

id_projekce	id_sal	id_vstupenka
1	1	1
1	1	2
1	1	3
2	2	4
3	1	5
2	2	6
4	1	NULL

```
SELECT id_sal, COUNT(p.id_projekce),  
COUNT(id_vstupenka) ... GROUP BY id_sal
```

**id\_sal**

**COUNT(projekce)**

**id\_vstupenka**

1

5

4

2

2

2

```
SELECT id_sal, COUNT(p.id_projekce),  
COUNT(id_vstupenka) ... GROUP BY id_sal
```

<b>id_sal</b>	<b>COUNT(projekce)</b>	<b>COUNT(id_vstupenka)</b>
---------------	------------------------	----------------------------

1	5	4
---	---	---

2	2	2
---	---	---

**DISTINCT**



```
SELECT id_sal, COUNT(DISTINCT p.id_projekce),  
COUNT(id_vstupenka) ... GROUP BY id_sal
```

**id\_sal**

**COUNT(projekce)**

**COUNT(id\_vstupenka)**

1

3

4

2

1

2

**minitest.jdem.cz**

**Vyberte dárce, kteří dali  
nejvíc peněz.**

# Subselect (poddotaz)

```
SELECT * FROM  
WHERE sloupec = (SELECT ...)
```

# Subselect (poddotaz)

```
SELECT * FROM  
WHERE sloupec IN (SELECT ...)
```

Vyberte příspěvky od lidí,  
kterých jméno začíná na "J".  
**BEZ JOINU!**

```
SELECT * FROM dary WHERE id_darce IN  
(SELECT id_darce FROM darci WHERE jmeno  
LIKE "J%")
```

Vypište dárce, u kterých nemáme evidovaný e-mail

```
SELECT jmeno FROM darci WHERE id_darce  
NOT IN (SELECT id_darce FROM kontakty  
WHERE typ = "email")
```