

## **Лабораторна робота №11**

з дисципліни  
«Організація баз даних та знань»

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## 1. Невдале виконання процедури

Процедура для вибірки працівників у відділах:

```
delimiter //
drop procedure if exists show_workers //
create procedure show_workers()
begin
    select w.first_name as 'First name', w.last_name as 'Last name',
    w.phone as 'Phone', w.incumbency as 'Incumbency', d.address as 'Department address' from worker w
    join department d on d.id = w.department_id
    order by d.id, w.incumbency;
end//
delimiter ;

call show_workers();

start transaction;
insert into worker value (null, 'John', 'Moses', '(514) 522-4343', 'manager', null, 1);
insert into worker value (null, 'Julie', 'Jefferson', '(195) 265-3225', 'cashier', null, 1);
insert into worker value (null, 'Alice', 'Williamson', '(703) 247-5656', 'worker', null, 2);
insert into worker value (null, 'Matthew', 'Russell', '(123) 676-0865', 'worker', null, 3);
commit;

call show_workers();
```

Дані в таблиці Працівники до виконання транзакції:

	First name	Last name	Phone	Incumbency	Department address
►	Harley	Townsend	(648) 489-4254	manager	44 Oak Meadow Ave. Mcallen, TX 78501
	Elliot	Livingston	(243) 613-7611	worker	44 Oak Meadow Ave. Mcallen, TX 78501
	Luke	Harrison	(595) 811-8574	cashier	44 Oak Meadow Ave. Mcallen, TX 78501
	Cameron	Weaver	(999) 906-8913	manager	8 Bridle Drive, New York, NY 12553
	Kasey	Willis	(319) 296-0312	worker	8 Bridle Drive, New York, NY 12553
	Veronica	Berg	(570) 705-4696	worker	8 Bridle Drive, New York, NY 12553
	Benjamin	Hendricks	(908) 934-5462	cashier	8 Bridle Drive, New York, NY 12553
	Amanda	Joyce	(783) 380-0597	cashier	8 Bridle Drive, New York, NY 12553
	Emmy	Rodgers	(544) 496-1312	manager +	8 Bridle Drive, New York, NY 12553

Результат виконання транзакції:

Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('insurance\_company`.`worker`, CONSTRAINT `fk\_wor\_dep` FOREIGN KEY (`department\_id`) REFERENCES `department` (`id`))

## 2. Успішна процедура

Додамо відділ, з номером 3:

```
insert into department value (3, '2575 Wilson Avenue Southwest, Cedar Rapids, IA 52404');

start transaction;
insert into worker value (null, 'John', 'Moses', '(514) 522-4343', 'manager', null, 1);
insert into worker value (null, 'Julie', 'Jefferson', '(195) 265-3225', 'cashier', null, 1);
insert into worker value (null, 'Alice', 'Williamson', '(703) 247-5656', 'worker', null, 2);
insert into worker value (null, 'Matthew', 'Russell', '(123) 676-0865', 'worker', null, 3);
commit;

call show_workers();
```

	First name	Last name	Phone	Incumbency	Department address
►	John	Moses	(514) 522-4343	manager	44 Oak Meadow Ave. Mcallen, TX 78501
	Harley	Townsend	(648) 489-4254	manager	44 Oak Meadow Ave. Mcallen, TX 78501
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	Elliot	Livingston	(243) 613-7611	worker	44 Oak Meadow Ave. Mcallen, TX 78501
	Julie	Jefferson	(195) 265-3225	cashier	44 Oak Meadow Ave. Mcallen, TX 78501
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	Julie	Jefferson	(195) 265-3225	cashier	44 Oak Meadow Ave. Mcallen, TX 78501
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	Matthew	Russell	(123) 676-0865	worker	2575 Wilson Avenue Southwest, Cedar...

**Висновок:** На цій лабораторній роботі я ознайомився із механізмом транзакцій у СУБД MySQL.