```
-- Session 1
use sakila;
show variables like 'transaction_isolation';
-- read committed
set session transaction isolation level read committed;
start transaction;
select * from film where film_id = 15;
update film
set title = 'read committed 5'
where film_id = 15;
commit;
 -- repeatable read
set session transaction isolation level repeatable read;
start transaction;
select sum(price * quantity) as revenue from orders; -- 11624
commit;
-- table
-- 5 rows
-- as soon as you do first read : snapshot
-- transaction_id
start transaction;
select * from orders;
```

```
select sum(price * quantity) as revenue from orders;
update orders
set price = 40
where order_id = 12;
update orders
set price = 45
where price = 500;
commit;
set session transaction isolation level serializable;
start transaction;
select * from orders where order_id = 8;
insert into orders (order_id , price, quantity)
values (6, 45, 10);
update orders
set price = 15
where order_id = 7;
-- Error Code: 1213. Deadlock found when trying to get lock; try restarting
transaction
commit;
delete from orders
where order_id = 6;
SELECT
    t.PROCESSLIST_ID AS thread_id,
    t.PROCESSLIST_INFO AS query,
    1.OBJECT_SCHEMA AS locked_schema,
    1.0BJECT_NAME AS locked_table,
    1.INDEX_NAME AS locked_index,
    1.LOCK_TYPE AS lock_type,
    1.LOCK_MODE AS lock_mode,
```

```
1.LOCK_DATA AS locked_data
FROM
    performance_schema.data_locks l

JOIN
    performance_schema.threads t ON l.THREAD_ID = t.THREAD_ID
WHERE
    l.OBJECT_SCHEMA = 'sakila' AND
    l.OBJECT_NAME = 'orders';
```

```
use sakila;
show variables like 'transaction_isolation';
-- read committed
set session transaction isolation level read committed;
start transaction;
select * from film where film_id = 15;
update film
set title = 'read committed 4'
where film_id = 15;
commit;
-- repeatable read
set session transaction isolation level repeatable read;
start transaction;
```

```
select sum(price * quantity) as revenue from orders;
 update orders
 set price = 15
 where order_id = 1;
commit;
start transaction;
select sum(price * quantity) as revenue from orders;
insert into orders (order_id , price, quantity)
values (8 , 500 , 10);
commit;
set session transaction isolation level serializable;
start transaction;
select * from orders where order_id IN (3 ,4 ,5 , 6 , 7);
select * from orders where order_id = 7;
select * from orders
where price = 45;
insert into orders (order_id , price, quantity)
values (13 , 500 , 10);
update orders
set price = 15
where order_id = 8;
commit;
```