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Non-conflicting transactions in MYSQL:

1) Transaction in medicine_details table:
ADMIN1:
START TRANSACTION;
UPDATE medicine_details SET price = 440 WHERE drug_id= 21;
UPDATE bill SET total_price = (quantity*440) WHERE drug_id = 21;
COMMIT;


ADMIN2:
START TRANSACTION;
UPDATE medicine_details SET quantity = 497 WHERE SUPPLIER= 'Pfizer';
UPDATE medicine_details SET quantity = 109 WHERE SUPPLIER= 'Bayer';
COMMIT;


ADMIN3:
START TRANSACTION;
UPDATE medicine_details SET MFG_DATE='2024-05-10' WHERE
NAME_OF_DRUG='Ibuprofen';
UPDATE medicine_details SET MFG_DATE='2024-07-20' WHERE
NAME_OF_DRUG='Paracetamole';
COMMIT;

2)  Transaction for Adding a new record into cart table:
USER1:
BEGIN;
INSERT INTO cart (cart_id, cart_item, quantity, price,pid,final_status)
VALUES (122, 'cipla',2,9.99,135,'Y');
ROLLBACK;


USER2:
BEGIN;
INSERT INTO cart (cart_id, cart_item, quantity, price,pid,final_status)
VALUES (123, 'bcomplex',22,17,137,'Y');
INSERT INTO cart (cart_id, cart_item, quantity, price,pid,final_status)
VALUES (124, 'SUMO',43,1.2,138,'Y');
INSERT INTO cart (cart_id, cart_item, quantity, price,pid,final_status)
VALUES (125, 'TEXON',11,25,139,'Y');
COMMIT;



3) Transaction for updating employee table:
ADMIN1:
START TRANSACTION;
UPDATE  employee SET position= 'sales head' WHERE employee_id = 2;
UPDATE  employee SET position= 'sales executive' WHERE employee_id = 3;
delete from employee where employee_id=4;
COMMIT;


ADMIN2:
START TRANSACTION;
UPDATE  employee SET city= 'Bhopal' WHERE employee_id = 5;
UPDATE  employee SET email_id= 'rx@gmail.com' WHERE name= 'Lainey';
COMMIT;



4) Transaction for  adding into sales_details table:


ADMIN1:
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START TRANSACTION;
INSERT INTO
sales_details(invoice_id,medicine_name,date,time,drug_id,total_quantity,t
otal_sales) VALUES (101,'vixo','2023-04-03','11:05:04',12,1200)
INSERT INTO
sales_details(invoice_id,medicine_name,date,time,drug_id,total_quantity,t
otal_sales) VALUES (102,'vnbixo','2023-04-03','11:05:04',14,1200)
COMMIT;


ADMIN2:

START TRANSACTION;
INSERT INTO
sales_details(invoice_id,medicine_name,date,time,drug_id,total_quantity,t
otal_sales) VALUES (103,'ziga','2023-04-03','11:05:04',15,1500)
INSERT INTO
sales_details(invoice_id,medicine_name,date,time,drug_id,total_quantity,t
otal_sales) VALUES (104,'vorona','2023-04-03','11:05:04',7,1200)
COMMIT;

==>Conflicting transactions:
1)
ADMIN1:

START TRANSACTION;
UPDATE medicine_details SET price = 134 WHERE drug_id= 1;
UPDATE bill SET total_price = (quantity*134) WHERE drug_id = 1;
COMMIT;

ADMIN2:( at same instant)

START TRANSACTION;
UPDATE medicine_details SET price = 144 WHERE drug_id= 1;
UPDATE bill SET total_price = (quantity*144) WHERE drug_id = 1;
COMMIT;

Now, since both ADMIN1 and ADMIN2 are trying to update the price of
medicine concurrently , it will lead to a conflicting transaction.

2)

ADMIN1:
BEGIN;
INSERT INTO delivery_details
(bill_id,patien_NAME,Phone_no,Address,delivery_partner_id) VALUES
(99,'shyam',98299394440,'saudi gali',19)
INSERT INTO delivery_details
(bill_id,patien_NAME,Phone_no,Address,delivery_partner_id) VALUES
(100,'manisha',7849993025,'powderfali',20)
INSERT INTO delivery_details
(bill_id,patien_NAME,Phone_no,Address,delivery_partner_id) VALUES
(101,'hitesh',2233390284,'arabin',21)
COMMIT;

ADMIN2:
BEGIN;
INSERT INTO delivery_details
(bill_id,patien_NAME,Phone_no,Address,delivery_partner_id) VALUES
(102,'SHIV',38299394440,'siyugali',19)
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INSERT INTO delivery_details
(bill_id,patien_NAME,Phone_no,Address,delivery_partner_id) VALUES
(103,'sha',7841993025,'chnagarfali',20)
INSERT INTO delivery_details
(bill_id,patien_NAME,Phone_no,Address,delivery_partner_id) VALUES
(104,'eshA',9233390284,'hofa',21)
COMMIT;
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Now, since both ADMIN1 and ADMIN2 are trying to update delivery_details at the same instant, it will allot SAME DELIVERY PARTNERS !!! which will lead to conflict.