```sql
--------------------------------------------------
--Manage Transaction - COMMIT
--------------------------------------------------

-- start a transaction
BEGIN;


UPDATE courses
SET published_date = published_date + interval '2 month'
WHERE course_id = 1;


INSERT INTO courses(course_name, description, published_date)
VALUES('Working with PostgreSQL PL/PGSQL', 'Database Programming', '2023-03-
10');


-- commit the change (or roll it back later)
COMMIT;

--------------------------------------------------
--Manage Transaction - ROLLBACK
--------------------------------------------------

-- start a transaction
BEGIN;


INSERT INTO movie_reviews(movie_id, review)
VALUES
    (10, 'Wonderful'),
    (8, 'Cool');

UPDATE movie_reviews
SET movie_id = 5
WHERE review_id = 6;


-- rollback the changes
ROLLBACK TRANSACTION;


--------------------------------------------------

BEGIN;

UPDATE product_segment
SET discount = discount + 0.05;

SELECT * FROM product_segment;

UPDATE product p
SET net_price = price - price * s.discount
FROM product_segment s
WHERE p.segment_id = s.id;
```

```sql
SELECT SUM(net_price) FROM product;

ROLLBACK TRANSACTION;


-----------------------------------------------
--Manage Transaction - SAVEPOINT
-----------------------------------------------

-- start a transaction
BEGIN;

INSERT INTO movie_reviews(movie_id, review)
VALUES (10, 'Wonderful');

--New savepoint
SAVEPOINT dbhunter;

INSERT INTO movie_reviews(movie_id, review)
VALUES(8, 'Bad');

UPDATE movie_reviews
SET movie_id = 5 WHERE review_id = 6;

--Up to savepoint dbhunter changes are rollback
ROLLBACK TO SAVEPOINT dbHunter;
```