```sql
-------------------------------------------
--INSERT - Single Row
-------------------------------------------

INSERT INTO departments(department_id, department_name, location_id)
VALUES(13, 'Networking', 2400);

INSERT INTO basket_a(id_a, fruit_a)
VALUES(8, 'Plum');

INSERT INTO basket_a
VALUES(9, 'Watermelon');

-------------------------------------------
--INSERT - Single Row - Default Value
-------------------------------------------

INSERT INTO student(id, name, class, mark, gender, course_name)
VALUES(36, 'Adele', DEFAULT, DEFAULT, DEFAULT, 'Finance');

INSERT INTO student(id, name, class, mark, gender, course_name)
VALUES(37, 'Tarkan', DEFAULT, 78, 'male', 'Zoology');

INSERT INTO student(id, name, mark, course_name)
VALUES(38, 'Ava Max', 85, 'History');

-------------------------------------------
--INSERT - RETURNING Clause
-------------------------------------------

CREATE TABLE basket_c
(
    id_c SERIAL PRIMARY KEY,
    fruit_c VARCHAR(50) NOT NULL,
    calorie INTEGER DEFAULT 0
);

INSERT INTO basket_c(fruit_c)
VALUES('Orange')
RETURNING id_c;

INSERT INTO basket_c(fruit_c)
VALUES('Watermelon')
RETURNING id_c AS last_id;
```

```sql
-------------------------------------------
--INSERT Multiple Rows
-------------------------------------------

INSERT INTO departments(department_id, department_name, location_id)
VALUES
    (14, 'Academy', 1700),
    (15, 'Security', 1400),
    (16, 'Logistic', 2500),
    (17, 'Customer Experience', 2400);
INSERT INTO basket_c(fruit_c)
VALUES

    ('Lime'),
    ('Peach'),
    ('Quince'),
    ('Nectarine')
RETURNING *;

-------------------------------------------
--Copying Rows from Another Table
-------------------------------------------

INSERT INTO basket_c (fruit_c)
SELECT fruit_a
FROM basket_a
UNION
SELECT fruit_b
FROM basket_b

create table managers as
select * from employees
where 1=0

INSERT INTO managers
SELECT * FROM employees
WHERE job_id IN
    (
        SELECT job_id FROM jobs
        WHERE LOWER(job_title) LIKE '%manager%'
    )

-------------------------------------------
--UPDATE - Single Row
-------------------------------------------

UPDATE student
SET mark = 85
WHERE id = 3

UPDATE cars
SET brand = 'Mercedes Benz'
WHERE id = 1
```

```sql
-------------------------------------------
--UPDATE - Multiple Row
-------------------------------------------

UPDATE employees
SET salary = salary + 1000,
    manager_id = 22
WHERE employee_id IN (13,14);

UPDATE student
SET course_name = 'Finance'
WHERE course_name = 'Economics';

-------------------------------------------
--UPDATE - Returning
-------------------------------------------

UPDATE film
SET replacement_cost = 20,
   last_update = current_date
WHERE film_id = 100
RETURNING *

-------------------------------------------
--UPDATE - JOIN
-------------------------------------------

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

UPDATE employees e
SET salary = salary * 1.2
FROM jobs j
WHERE e.job_id = j.job_id
     AND LOWER(job_title) LIKE '%manager%'

-------------------------------------------
--DELETE - Single Row
-------------------------------------------

DELETE FROM basket_c
WHERE id_c = 5;

DELETE FROM staff
WHERE staff_id = 104;

DELETE FROM product
WHERE name = 'Oven';

DELETE FROM student
WHERE id = 36;

DELETE FROM student
WHERE name = 'Arnold';

DELETE FROM courses
WHERE id = 3;
```

```sql
-------------------------------------------
--DELETE - Multiple Row
-------------------------------------------

DELETE FROM basket_c
WHERE id_c IN (8, 9);

DELETE FROM basket_c
WHERE fruit_c = 'Orange';

DELETE FROM basket_c
WHERE fruit_c IN
   (SELECT fruit_b FROM basket_b)

DELETE FROM student
WHERE course_name = 'Finance';

-------------------------------------------
--DELETE - Returning
-------------------------------------------

DELETE FROM colors
RETURNING *;

DELETE FROM student
WHERE id = 17
RETURNING name, course_name;

DELETE FROM cars
WHERE price > 150000

-------------------------------------------
--DELETE - JOIN
-------------------------------------------

DELETE FROM movies m
USING movie_reviews mr
WHERE mr.movie_id = m.movie_id
```

```sql
-----------------------------------------------------
--EXERCISE ANSWERS
-----------------------------------------------------

-----------------------------------------
--INSERT - Single Row
-----------------------------------------

INSERT INTO staff(staff_id, first_name, last_name, hire_date, departure_date)
VALUES(300, 'Billie', 'Eilish', '2023-02-01', NULL);

INSERT INTO staff
VALUES(301, 'Alan', 'Walker', '2023-01-01', '2032-12-31');

-----------------------------------------
--UPDATE - JOIN
-----------------------------------------

UPDATE employees e
SET salary = salary * 1.2
FROM jobs j
WHERE e.job_id = j.job_id
     AND LOWER(job_title) LIKE '%manager%'

UPDATE employees
SET salary = salary * 1.2
WHERE job_id IN
    (
        SELECT job_id FROM jobs
        WHERE LOWER(job_title) LIKE '%manager%'
    )

-----------------------------------------
--DELETE - JOIN
-----------------------------------------

--Exercise-1

DELETE FROM movies m
USING movie_reviews mr
WHERE mr.movie_id = m.movie_id

DELETE FROM movies m
WHERE m.movie_id IN
(
    SELECT mr.movie_id FROM movie_reviews mr
);

DELETE FROM movies m
WHERE EXISTS
(
    SELECT 1 FROM movie_reviews mr
    WHERE m.movie_id = mr.movie_id
);

--Exercise-2

DELETE FROM product p
USING product_segment ps
WHERE p.segment_id = ps.id
    and ps.segment = 'Luxury'
```