```sql
SELECT * FROM EMPLOYEES;


CREATE VIEW v_wysokie_pensje AS SELECT *

FROM EMPLOYEES

WHERE salary > 6000;


SELECT * FROM v_wysokie_pensje;


DROP VIEW v_wysokie_pensje;


CREATE VIEW v_wysokie_pensje AS SELECT *

FROM employees

WHERE salary > 12000;


DROP VIEW v_wysokie_pensje;


SELECT * FROM DEPARTMENTS;


CREATE VIEW v_finance_pracownicy AS

SELECT

    e.employee_id,

    e.last_name,

    e.first_name

FROM EMPLOYEES e JOIN DEPARTMENTS d ON e.department_id = d.department_id

WHERE d.department_name = 'Finance';


SELECT * FROM v_finance_pracownicy;
```

```sql
CREATE VIEW v_pracownicy_5000_12000 AS
SELECT
    employee_id,
    last_name,
    first_name,
    salary,
    job_id,
    email,
    hire_date
FROM EMPLOYEES
WHERE salary BETWEEN 5000 AND 12000;


SELECT * FROM v_pracownicy_5000_12000;


--mozna edytowac tylko jesli ma salary od 5000 w gore gdyz tylko widoki 1 i 3 spelniaja warunki modyfikowalnosci
UPDATE v_pracownicy_5000_12000
SET salary = 18000
WHERE employee_id = 103;


UPDATE v_wysokie_pensje
SET salary = 9000
WHERE employee_id = 103;


CREATE VIEW v_statystyki_dzialow AS
SELECT
    d.department_id,
```

```sql
    d.department_name,

    COUNT(e.employee_id) AS liczba_pracownikow,

    ROUND(AVG(e.salary)) AS srednia_pensja,

    MAX(e.salary) AS najwyzsza_pensja

FROM DEPARTMENTS d JOIN EMPLOYEES e ON d.department_id = e.department_id

GROUP BY d.department_id, d.department_name

HAVING COUNT(e.employee_id) >= 4;


SELECT * FROM v_statystyki_dzialow;

--NIE mozna edytowac gdyz widok nie spelnia warunkow modyfikowalnosci


CREATE OR REPLACE VIEW v_pracownicy_5000_12000 AS

SELECT

    employee_id,

    last_name,

    first_name,

    salary,

    job_id,

    email,

    hire_date

FROM EMPLOYEES

WHERE salary BETWEEN 5000 AND 12000

WITH CHECK OPTION;


SELECT * FROM v_statystyki_dzialow;


INSERT INTO v_pracownicy_5000_12000 (employee_id, last_name, first_name, salary, job_id, email, hire_date)
```

```sql
VALUES (
    300, 'Nowak', 'Anna', 8000, 'IT_PROG', 'anowak@example.com', SYSDATE
);


SELECT * FROM v_pracownicy_5000_12000;

--mozna dodawac pracownika z pensja pomiedzy 5000 a 12000 gdyz spelni wtedy warunki modyfikowalnosci

--NIE mozna dodawac pracownika z pensja powyzej 12000 gdyz widok nie spelnia warunkow modyfikowalnosci


DELETE FROM v_pracownicy_5000_12000
WHERE employee_id = 300;


SELECT * FROM DEPARTMENTS;


CREATE MATERIALIZED VIEW v_managerowie
BUILD IMMEDIATE REFRESH ON DEMAND AS
SELECT DISTINCT
    e.employee_id,
    e.first_name,
    e.last_name,
    d.department_name
FROM EMPLOYEES e JOIN DEPARTMENTS d ON e.department_id = d.department_id
WHERE e.employee_id IN (
    SELECT DISTINCT manager_id
    FROM EMPLOYEES
    WHERE manager_id IS NOT NULL
);
```

```sql
SELECT * FROM v_managerowie;


CREATE VIEW v_najlepiej_oplacani AS SELECT *

FROM EMPLOYEES

ORDER BY salary DESC

FETCH FIRST 10 ROWS ONLY;


SELECT * FROM v_najlepiej_oplacani;
```