SQL3-EX01:

```
SQL DE.

V CONNECTIONS

Oracle 19
                                                        ... ALTER TABLE HR.EMPLOYEES Untitled-1 •
 > Tables
                                                                      4 UPDATE HR.EMPLOYEES
5 SET MAX_SALARY = (SELECT MAX(salary) FROM HR.EMPLOYEES);
                                                                    6
7 DELETE FROM HR.EMPLOYEES
8 WHERE salary = (SELECT MIN(salary) FROM HR.EMPLOYEES);
            > Functions
> FO Operators
            > tables Queues Tables
> tables Queues Tables
> tables Triggers
> tables Triggers
> tables Triggers
> tables Triggers
> 福 Materialized View Logs
             > 局 Synonyms
> 属 Public Synonyms
         ∨ SQL SNIPPETS
          > Analytic Functions
          > Conversion Functions
          > Date/Time Functions
          > Numeric Functions
          Optimizer HintsPL/SQL Programming Techniques
          > Predictive Analytics
> Pseudocolumns
× ⊗0∆0 ₩0
                                                                                                                                                                                             Ln 10, Col 1 Spaces: 4 UTF-8 LF PL/SQL 🚷 👨 Oracle 19c CDB
```

SQL3-EX02:

```
SQL DEVELOPER

V CONNECTIONS
                                                                  ... CREATE INDEX DPR_NAME_IDX Untitled-1 

                                                                                                                                                                                                                                                                                                       ⊅ខ្ទឹមាធ
                                                                                     1 CREATE INDEX DPR_NAME_IDX
2 ON HR.DEPARTMENTS (DEPARTMENT_NAME);
○ ✓ th Oracle 19c CDB TUT+ &
           > Fill Tables
> Fill Views
> Fill Indexes
> Fill Packages
                                                                                   ALTER TABLE HR.EMPLOYEES
ADD CONSTRAINT CNSTR_SALARY
CHECK (salary BETWEEN 1000 AND 100000);
                                                                               CHECK (salary BETMEEN 1000 AND 100000);

BOROP INDEX DPR_NAME_IDX HR.DEPARTMENTS;

ALTER TABLE HR.DEPLOYEES

ENABLE CONSTRAINT ONSTR_SALARY;

ALTER TABLE HR.DEPLOYEES

DISABLE CONSTRAINT ONSTR_SALARY;

ALTER TABLE HR.DEPLOYEES

DROP CONSTRAINT ONSTR_SALARY;

BOROP CONSTRAINT ONSTR_SALARY;
             > 🗐 Procedures
                 Functions
Operators
                 Queues Tables
                 Triggers
Types
E.
                 Sequences

Materialized Views
             > G Materialized View Logs
> G Synonyms
> 属 Public Synonyms
           > Aggregate Functions
> Analytic Functions
> Character Functions
           > Date/Time Functions
            > Numeric Functions
            > PL/SQL Programming Techniques
            > Pseudocolumns
           > Flashback> SQL Developer Tips
× ⊗ 0 ∆ 0 ₩ 0
```

SQL3-EX03:

```
CREATE TABLE distinct departments AS Untitled-1
          SQL DEVELOPER
        ∨ CONNECTIONS
                                                                            CREATE TABLE distinct_departments AS 
SELECT DISTINCT HR.EMPLOYEES
FROM HR.EMPLOYEES:
          > ☐ Tables
> ☐ Views
                                                                        ALTER TABLE distinct_departments
ADD department_name VARCHAR(255);
           > 
indexes
> 
Packages
                                                                    MERGE INTO distinct_departments d

USING HR.DEPARTMENTS dep

N (d.department_id = dep.department_id)

WHEN MATCHED THEN

UPDATE SET d.department_name = dep.department_name

NHEN NOT MATCHED THEN

INSERT (department_id, department_name)

VALUES (dep.department_id, dep.department_name);
            > 🔄 Procedures
            > 📅 Operators
           > 🖟 Triggers
> 🛅 Types
Materialized View Logs
            > 属 Public Synonyms
           SQL SNIPPETS
            Aggregate Functions
           > Analytic Functions
          > Date/Time Functions
          > Numeric Functions
          > PL/SQL Programming Techniques
          > Pseudocolumns
```

SQL3-EX04:

```
០៩៩៩៩៤០
                                                                    MITH EmployeesWithS AS ( Untitled-1 •
          SQL DEVELOPER
                                                                         V CONNECTIONS
→ 🖫 Tables
→ 🖼 Views
                                                                              ),
JobSalaryRange AS (
SELECT Job_id, job_title, MIN(salary) AS min_salary, MAX(salary) AS max_salary
FROM HR.BMPLOYEES
JOIN JOBS ON HR.EMPLOYEES.job_id = jobs.job_id
GROUP BY job_id, job_title
           > कि Indexes
            > 🖬 Procedures
            > 📅 Operators
                                                                              ),
DepartmentInfo AS (
SELECT department_id, department_name
FROM HR.DEPARTMENTS
CombinedData AS (
SELECT e.first_name,
                                                                                    SELECT e.first_name,
e.last_name,
e.job_id,
e.department_id,
d.department_name,
j.job_itile,
j.min_salary,
j.max_salary

FROM EmployeesWithS e

JOIN JobSalaryRange j ON e.job_id = j.job_id

JOIN DepartmentInfo d ON e.department_id = d.department_id
            > A Materialized View Logs
             > 院 Public Synonyms
           > Aggregate Functions
           > Character Functions
                                                                             SELECT first_name,
    last_name,
    concar(first_name, ' ', last_name) AS full_name,
    job_id,
    department_id,
    department_name,
    job_title,
    min_salary,
    max_salary
FROM CombinedData;
           > Conversion Functions
           > Date/Time Functions
          > Numeric Functions
           > PL/SQL Programming Techniques
          > Pseudocolumns
          > SQL Developer Tips
```

SQL3-EX05: Commit ile son yapılan işlemler kaydedilerek kalıcı hale getirilir, insert, update ve delete işlemleri commit olarak örnek verilebilir. Rollback ise işlem sırasında bir hata gerçekleşirse son yapılan işlemleri geri alır, böylece olası problemlerin önüne geçilmiş olur.