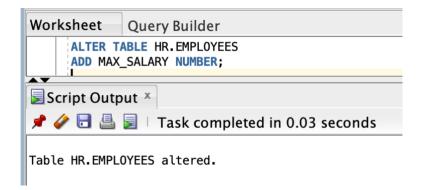
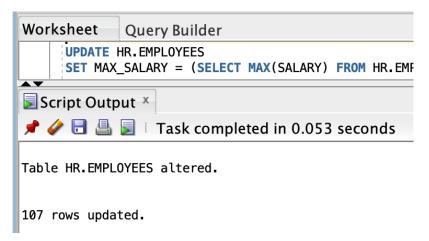
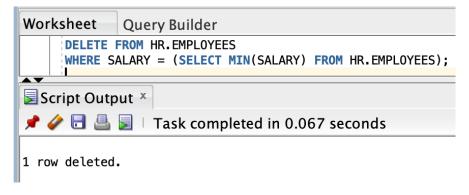
Exercise SQL03-EX-01:

Definiton: Write followig SQL queries:

- Add a colum to employees table named MAX_SALARY.
- Update MAX_SALARY with maximum salary amount with subquery.
- Delete employee who have minimum salary using subquery.



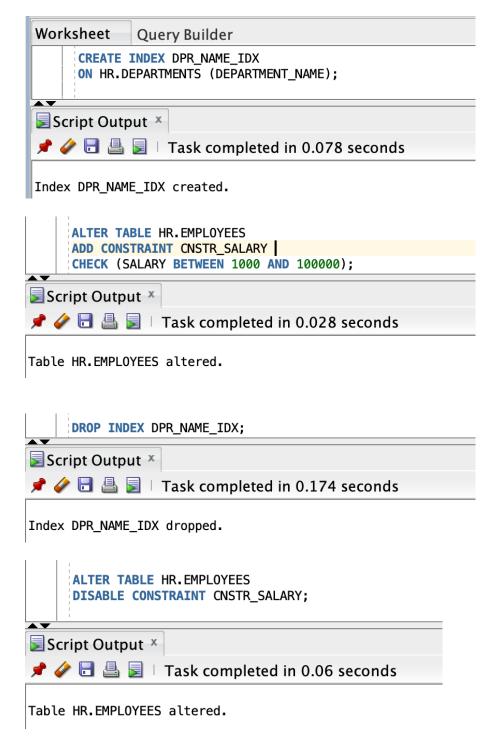


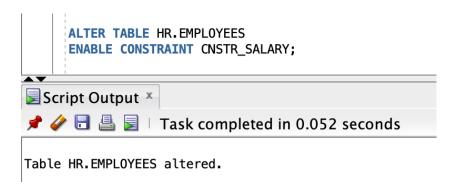


Exercise SQL03-EX-02:

Definiton: Write followig SQL queries:

- Define index (named DPR_NAME_IDX) on DEPARTMENT_NAME column of DEPARTMENTS table.
- Define constraint (named CNSTR_SALARY) on employee salary. (Salary must be between 1000\$ and 100.000\$)
- Drop defined index.
- Enable, disable, drop defined constraint.





Exercise SQL03-EX-03:

Definiton: Create a table from EMPLOYEES with distinct department_id column. Add department_name to that table. With DEPARTMENTS table, update department_name for included department_ids and insert department_id and department_name values for not included rows. Use MERGE keyword.

```
CREATE TABLE EMP_DEPT AS
SELECT DISTINCT DEPARTMENT_ID
FROM HR.EMPLOYEES;

ALTER TABLE EMP_DEPT
ADD DEPARTMENT_NAME VARCHAR2(50);

Script Output ×

Task completed in 0.259 seconds
```

Table EMP_DEPT created.

Table EMP_DEPT altered.

```
MERGE INTO EMP_DEPT target
USING (

SELECT DEPARTMENT_ID, DEPARTMENT_NAME
FROM HR.DEPARTMENTS)
) source
ON (target.DEPARTMENT_ID = source.DEPARTMENT_ID)
WHEN MATCHED THEN
UPDATE SET target.DEPARTMENT_NAME = source.DEPARTMENT_NAME
WHEN NOT MATCHED THEN
INSERT (DEPARTMENT_ID, DEPARTMENT_NAME)
VALUES (source.DEPARTMENT_ID, source.DEPARTMENT_NAME);

Script Output ×

Script Output ×
Task completed in 0.054 seconds

Table EMP_DEPT altered.
```

Exercise SQL03-EX-04:

Definiton: Using **WITH** keyword, do following jobs:

- Firstly select first_name, last_name, job_id, department_id from employees table whoes job_id starts with 'S'.
- Additionally select job_title and min-max salary amount.
- Add department_name to that query.
- Lastly concat first_name and last_name with space as full_name alias and list with other selected columns.

```
WITH Employee_Info AS (
     SELECT
          FIRST_NAME,
          LAST_NAME,
          JOB ID,
          DEPARTMENT_ID
     FROM HR.EMPLOYEES WHERE JOB_ID LIKE 'S%'
 Job_Info AS (
     SELECT
          JOB ID,
          JOB_TITLE,
          MIN_SALARY,
          MAX SALARY
     FROM HR.JOBS
 Full_Employee_Info AS (
     SELECT
          E.FIRST_NAME,
          E.LAST_NAME,
          E.JOB_ID,
          E.DEPARTMENT_ID,
          J.JOB_TITLE,
          J.MIN_SALARY,
          J.MAX_SALARY,
          D.DEPARTMENT_NAME
     FROM Employee Info E
     JOIN Job_Info J ON E.JOB_ID = J.JOB_ID
     JOIN HR.DEPARTMENTS D ON E.DEPARTMENT_ID = D.DEPARTMENT_ID
 SELECT
     FIRST_NAME | | ' ' | LAST_NAME AS FULL_NAME,
     JOB_ID,
     JOB_TITLE,
     MIN_SALARY,
     MAX_SALARY,
     DEPARTMENT NAME
 FROM Full_Employee_Info ORDER BY FULL_NAME;
    Query Result X
    📌 🖺 🝓 🔯 SQL | Fetched 50 rows in 0.042 seconds

₱ FULL_NAME

                        ♦ JOB_ID ♦ JOB_TITLE

♦ MIN_SALARY | ♦ MAX_SALARY | ♦ DEPARTMENT_NAME

                        ST_MAN Stock Manager
                                                                          8500 Shipping
                        SH_CLERK Shipping Clerk
                                                            2500
                                                                          5500 Shipping
        2 Alana Walsh
       3 Alberto Errazuriz SA_MAN Sales Manager
                                                           10000
                                                                         20080 Sales
       4 Alexis Bull SH_CLERK Shipping Clerk
                                                            2500
                                                                          5500 Shipping
       5 Allan McEwen
                        SA_REP Sales Representative
                                                            6000
                                                                         12008 Sales
       6 Alyssa Hutton SA_REP
                                Sales Representative
                                                            6000
                                                                         12008 Sales
       7 Amit Banda
                        SA_REP
                                                            6000
                                                                         12008 Sales
                                Sales Representative
       8 Anthony Cabrio SH_CLERK Shipping Clerk
                                                            2500
                                                                          5500 Shipping
        9 Britney Everett SH_CLERK Shipping Clerk
                                                            2500
                                                                          5500 Shipping
```

Exercise SQL03-EX-05:

Definiton: Search for COMMIT and ROLLBACK keywords and explain them.

COMMIT o anki transactionda yapılan değişiklikleri kalıcı hale getirir. ROLLBACK bir transactionda henüz commit edilmemiş olan değişiklikleri geri alır.