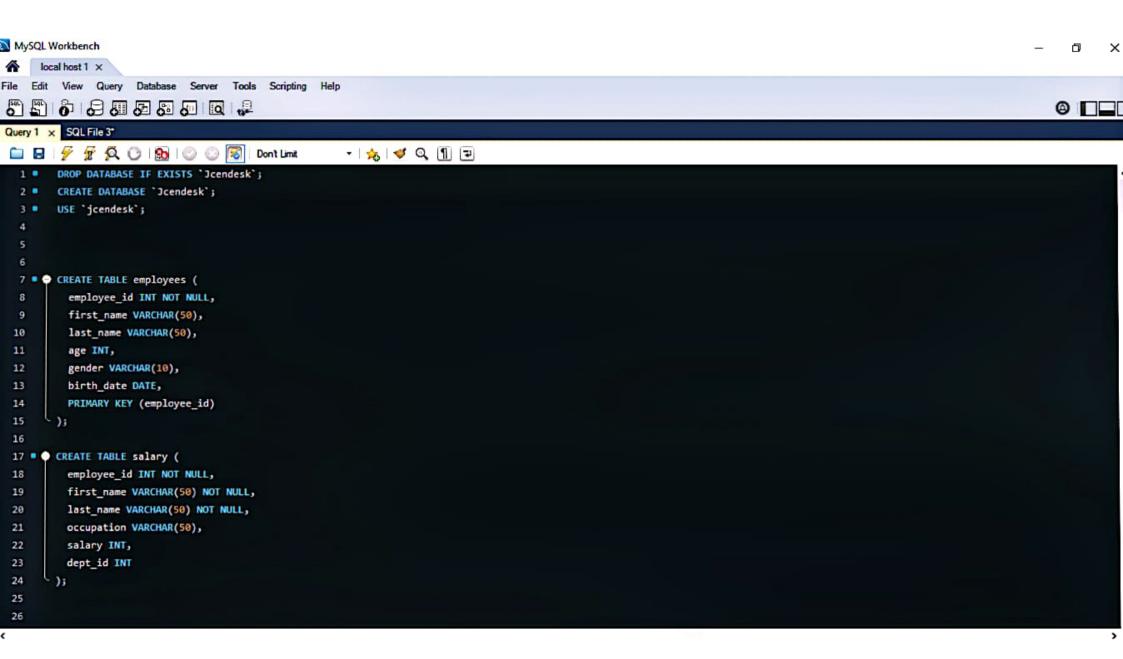


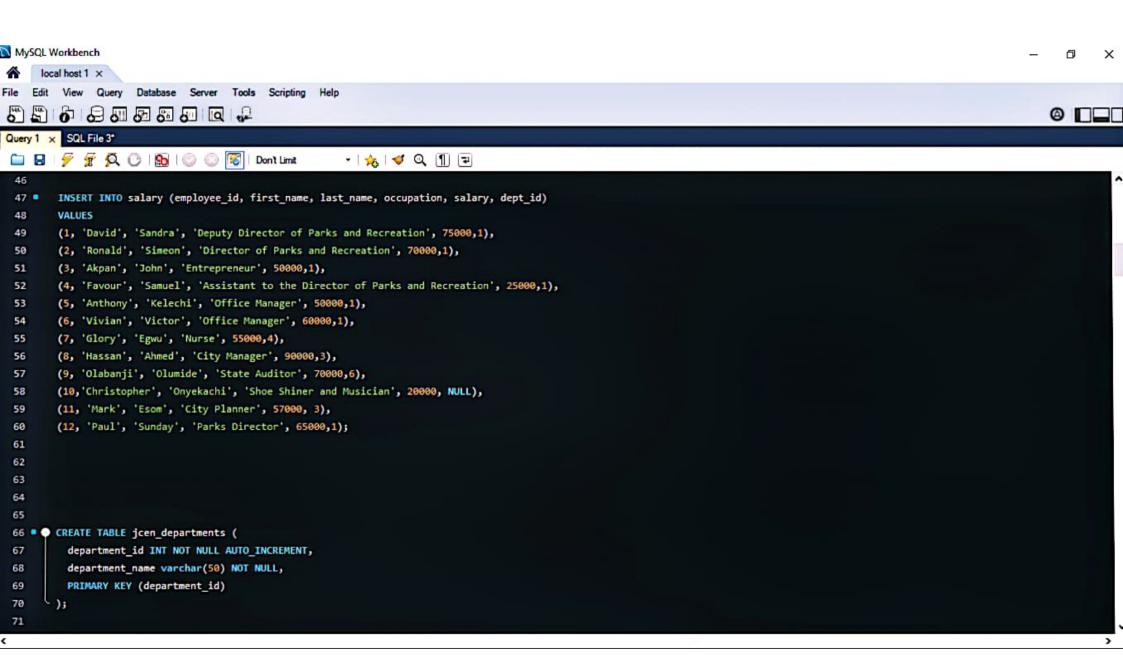
```
17
       # 17. Find employees who work in the 'Information and Technology' department.
       # 18. Get employees' department names along with their salaries.
18
       # 19. Show employees who do not have a department assigned (NULL values in dept id).
19
      # 20. Find employees and their corresponding birth dates along with their salaries.
20
       # 21. Count the total number of male employees.
21
       # 22. Find the total number of employees in each department.
22
       # 23. Retrieve the youngest and oldest employee from the database.
23
       # 24. Get the total salary being paid to all employees.
24
       # 25. Show the department with the highest number of employees.
25
       # 26. Find employees who have the same first name.
26
       # 27. Retrieve employees whose salaries are below the company's average salary.
27
28
       # 28. Count how many employees have each occupation.
       # 29. Show all employees grouped by gender, along with the number of employees in each gender.
29
30
31
```

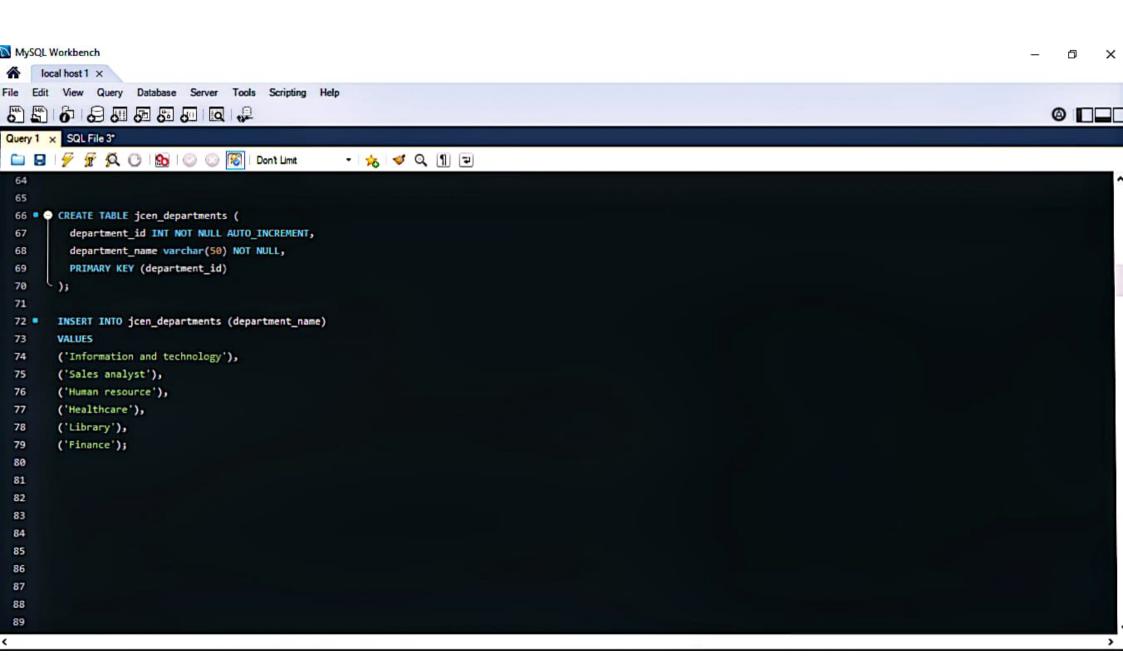
Retrieve the full names, occupations, and salaries of all employees.

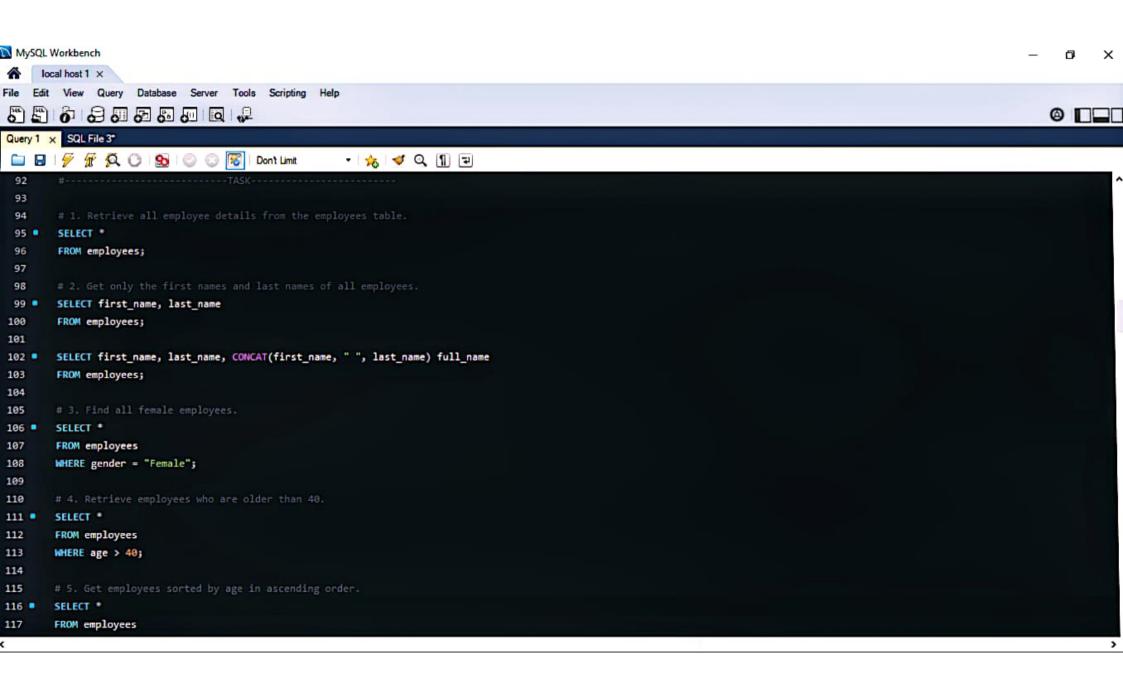
16



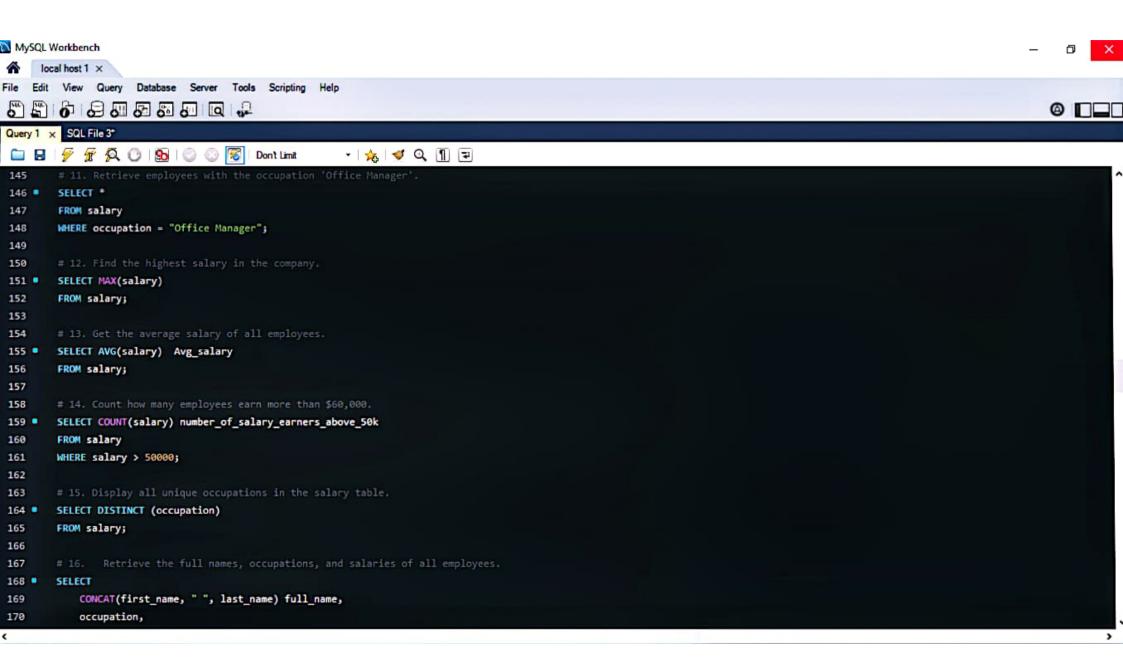
```
dept_id INT
24
25
26
27
       INSERT INTO employees (employee id, first name, last name, age, gender, birth date)
28
       VALUES
29
       (1, 'David', 'Sandra', 44, 'Female', '1979-09-25'),
30
       (3, 'Akpan', 'John', 36, 'Male', '1987-03-04'),
       (4, 'Favour', 'Samuel', 29, 'Female', '1994-03-27'),
31
32
       (5, 'Anthony', 'Kelechi', 61, 'Male', '1962-08-28'),
       (6, 'Vivian', 'Victor', 46, 'Female', '1977-07-30'),
33
       (7, 'Glory', 'Egwu', 35, 'Female', '1988-12-01'),
34
       (8, 'Hassan', 'Ahmed', 43, 'Male', '1980-11-11'),
35
       (9, 'Olabanji', 'Olumide', 38, 'Male', '1985-07-26'),
36
       (10, 'Christopher', 'Onyekachi', 34, 'Male', '1989-03-25'),
37
38
       (11, 'Mark', 'Esom', 40, 'Male', '1983-06-14'),
39
       (12, 'Paul', 'Sunday', 37, 'Male', '1986-07-27');
40
41
42
43
44
45
46
47
       INSERT INTO salary (employee_id, first_name, last_name, occupation, salary, dept_id)
48
       VALUES
```

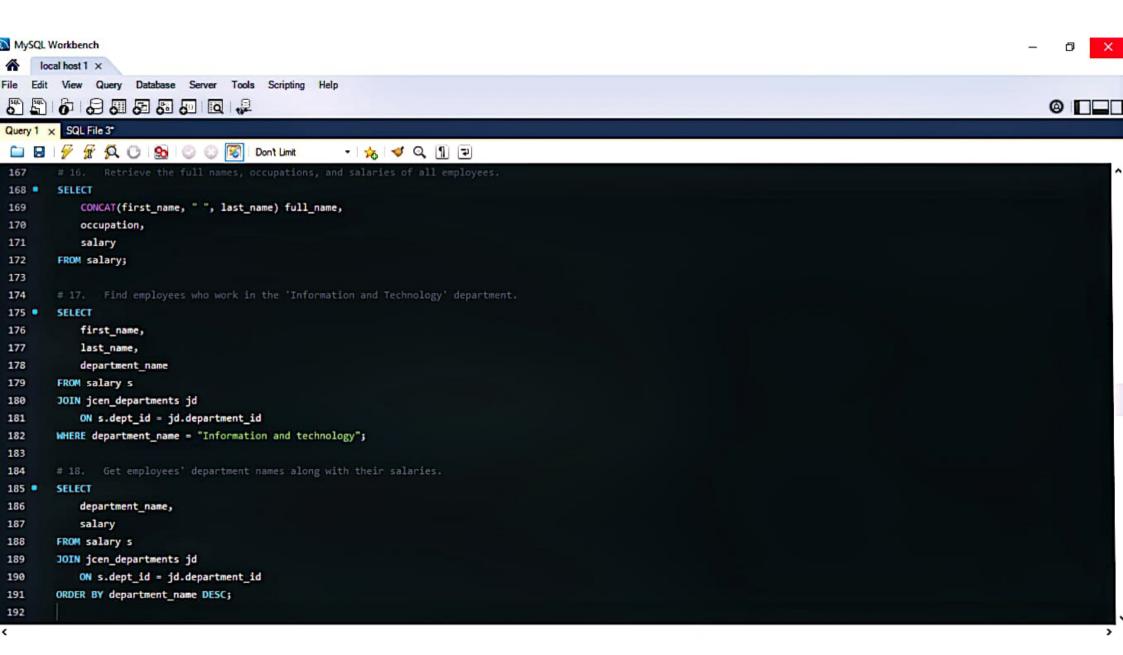




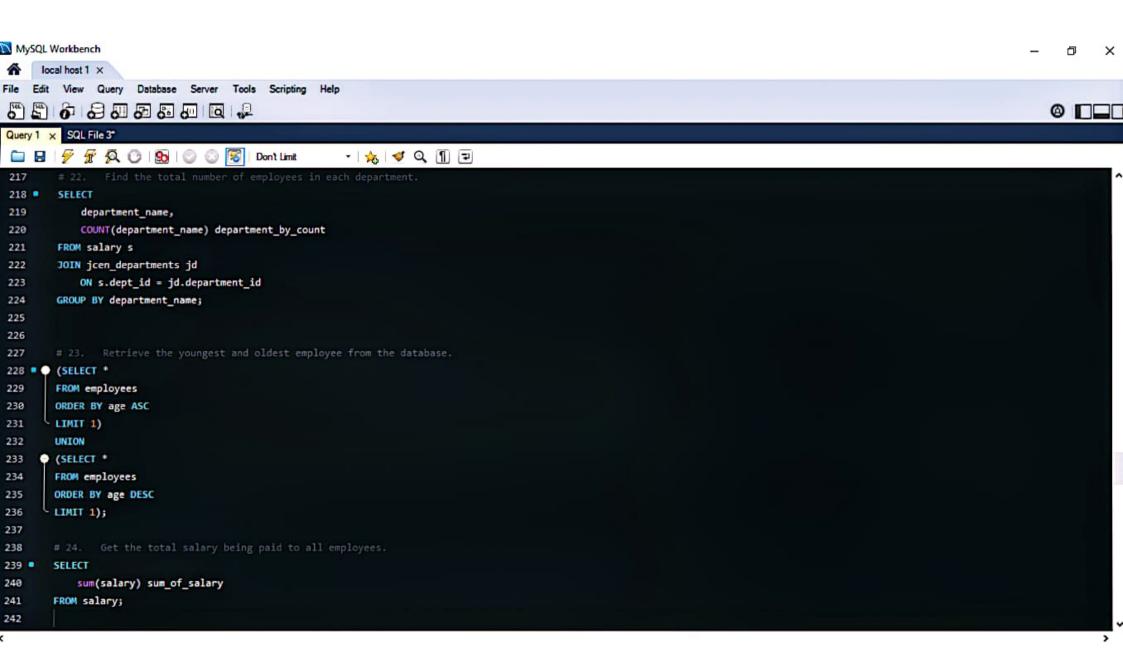


```
# 6. Find employees born before the year 1985.
120
121
        SELECT *
122
        FROM employees
        WHERE birth_date < "1985-01-01";
123
124
125
        SELECT *
126
127
        FROM employees
128
        WHERE first_name LIKE "A%";
129
130
131
        SELECT *
132
        FROM employees
        WHERE last_name LIKE "%o%";
133
134
135
        SELECT CONCAT(first_name, " " ,last_name) Full_name, salary
136
        FROM salary
137
        WHERE salary > 50000;
138
139
140
        SELECT *
141
        FROM salary
142
        WHERE salary BETWEEN 40000 AND 70000;
143
144
145
<
```





```
ow employees who do not have a department assigned (NULL values in dept_id).
194 *
        SELECT *
195
        FROM salary s
196
        JOIN jcen_departments jd
197
            ON s.dept_id = jd.department id
198
        WHERE department_name IS NULL;
199
200
201
        SELECT
            CONCAT(e.first_name, " ", e.last_name) full_name,
202
            e.birth_date,
203
204
            s.salary
205
         FROM employees e
206
         JOIN salary s
207
            ON e.employee_id = s.employee_id;
208
209
210
        SELECT
211
             gender,
            COUNT(gender) total_male
212
         FROM employees
213
214
         WHERE gender = "Male"
         GROUP BY gender;
215
216
217
        SELECT
218
<
```



```
Snow the department with the highest number of employees.
244
        SELECT
245
            department_name,
246
            COUNT(department_name) total number
247
        FROM salary s
       JOIN jcen_departments jd
248
249
            ON s.dept_id = jd.department_id
       GROUP BY department_name
250
251
       ORDER BY department_name DESC
252
        LIMIT 1;
253
254
255
        SELECT
256
            first name,
257
            COUNT(*) same_first_name
258
        FROM employees
        GROUP BY first_name
259
260
        HAVING COUNT(*) < 1;
261
262
263
        SELECT *
264
        FROM salary
265

♦ WHERE salary < (</p>
266
               SELECT AVG(salary) average_salary
267
               FROM salary);
268
```

```
Count how many employees have each occupation.
270
271
        SELECT
           occupation,
272
           COUNT(*) count
273
        FROM salary
274
        GROUP BY occupation;
275
276
        # 29. Show all employees grouped by gender, along with the number of employees in each gender.
277
        SELECT
278
279
            gender,
           COUNT(gender) gender_count
280
        FROM employees
281
282
        GROUP BY gender;
283
284
        # 30. Find the department(s) where the total salary is above $150,000.
        SELECT
285
286
            department name,
            SUM(salary) total salary
287
        FROM salary s
288
        JOIN jcen_departments jd
289
            ON s.dept_id = jd.department_id
290
        GROUP BY department_name
291
        HAVING SUM(salary) > 150000;
292
293
294
295
```