

1. Write a SQL query that displays the last name and salary of employees who earn more than \$12,000.

Query :- `select last_name , salary from employees where salary > 12000`

Output:-

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.oracle.com/apex/?p=590:1:14891630687690:NO:RP::`. The page title is "Live SQL". The "SQL Worksheet" section contains the query: `1 select last_name , salary from employees where salary > 12000`. Below the query, the results are displayed in a table with two columns: "LAST\_NAME" and "SALARY". The table contains 8 rows of data. Below the table, there is a "Download CSV" link and the text "8 rows selected.".

LAST_NAME	SALARY
King	24000
Kochhar	17000
De Haan	17000
Greenberg	12000
Russell	14000
Partners	13500
Hartstein	13000
Higgins	12000

Download CSV  
8 rows selected.

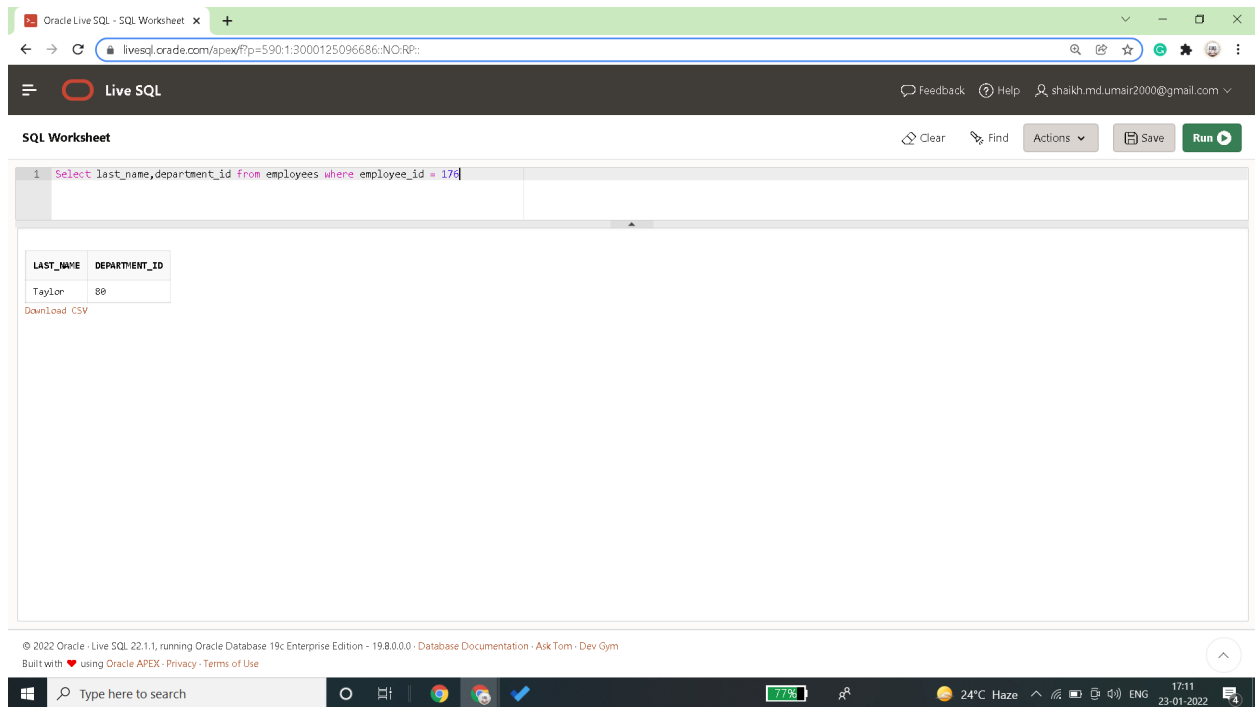
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2. Create a report that displays the last name and department number for employee number 176.

Query:-

Select last\_name,department\_id from employees where employee\_id = 176

Output:-



The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.oracle.com/apex/?p=590:1:3000125096686:NO:RP:`. The page title is "Live SQL". The "SQL Worksheet" section contains the query: `Select last_name,department_id from employees where employee_id = 176`. Below the query, the results are displayed in a table with two columns: **LAST\_NAME** and **DEPARTMENT\_ID**. The table contains one row with the values "Taylor" and "80". A "Download CSV" link is visible below the table. The footer of the page includes copyright information: "© 2022 Oracle - Live SQL 22.1.1, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym" and a note: "Built with ♥ using Oracle APEX - Privacy - Terms of Use". The Windows taskbar at the bottom shows the search bar, task view, and system tray with a battery level of 77% and a date of 23-01-2022.

LAST_NAME	DEPARTMENT_ID
Taylor	80

3. Write a SQL query to display the last name and salary for any employee whose salary is not in the range of \$5,000 to \$12,000.

Query:-select last\_name,salary from employees where salary not between 5000 and 12000

output:-

The screenshot shows the Oracle Live SQL interface. The query entered is: `select last_name,salary from employees where salary not between 5000 and 12000`. The results are displayed in a table with two columns: LAST\_NAME and SALARY. The table contains 15 rows of data. The interface also shows a toolbar with buttons for Clear, Find, Actions, Save, and Run. The bottom status bar indicates the Oracle version (22.1.1) and the database (19c Enterprise Edition).

LAST_NAME	SALARY
King	24000
Kochhar	17000
De Haan	17000
Austin	4800
Pataballa	4800
Lorentz	4200
Greenberg	12000
Khao	3100
Baida	2900
Tobias	2800
Himuro	2600
Colmenares	2500
Nayer	3200
Mikkilineni	2700
Landry	2400
Markle	2200
Bissot	3300

4. Create a report to display the last name, job ID, and start date for the employees with the last names of Matos and Taylor. Order the query in ascending order by the start date.

Query:-

Select last\_name,job\_id,hire\_date as start\_date from employees where last\_name='Matos' or last\_name = 'Taylor' order by start\_date asc

output:-

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.oracle.com/apex/?p=590:1:3000125096686:NO:RP:`. The page title is "Live SQL". The "SQL Worksheet" section contains the following query:

```
1 Select last_name,job_id,hire_date as start_date from employees where last_name='King' or last_name = 'Austin' order by start_date asc
```

Below the query editor, the results are displayed in a table:

LAST_NAME	JOB_ID	START_DATE
King	AD_PRES	17-JUN-03
King	SA_REP	30-JAN-04
Austin	IT_PROG	25-JUN-05

Below the table, it says "Download CSV" and "3 rows selected." The footer of the page includes copyright information: "© 2022 Oracle - Live SQL 22.1.1, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym" and "Built with using Oracle APEX - Privacy - Terms of Use". The Windows taskbar at the bottom shows the system clock as 14:55 on 23-01-2022.

5. Display the last name and department number of all employees in departments 20 or 50 in ascending alphabetical order by name.

Query:- Select last\_name,department\_id from employees where department\_id in(20,50) order by last\_name asc

output:-

The screenshot shows the Oracle Live SQL interface. The query entered is: `select last_name,department_id from employees where department_id in(50,20) order by last_name asc`. The results are displayed in a table with two columns: LAST\_NAME and DEPARTMENT\_ID. The table contains 18 rows of data, sorted alphabetically by last name. The departments are 50 for most employees and 20 for Fay and Feeney.

LAST_NAME	DEPARTMENT_ID
Atkinson	50
Bell	50
Bisset	50
Bull	50
Cabrío	50
Chung	50
Davies	50
Dellinger	50
Dilly	50
Everett	50
Fay	20
Feeney	50
Fleaur	50
Fripp	50
Gates	50

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6. Display the last name and salary of employees who earn between \$5,000 and \$12,000, and are in department 20 or 50. Label the columns Employee and Monthly Salary, respectively.

Query:- Select last\_name as Employee , salary as Monthly\_Salary from employees where salary between 5000 and 12000 and department\_id in(50,20)

Output:-

The screenshot shows the Oracle Live SQL interface. The query entered is: `Select last_name as Employee , salary as Monthly_Salary from employees where salary between 5000 and 12000 and department_id in(50,20)`. The results are displayed in a table with two columns: EMPLOYEE and MONTHLY\_SALARY. The table contains six rows of data. Below the table, there is a 'Download CSV' link and a message '6 rows selected.'.

EMPLOYEE	MONTHLY_SALARY
Weiss	8000
Fripp	8200
Kaufling	7900
Vollman	6500
Wongos	5000
Fay	6000

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7. Displays the last name and hire date for all employees who were hired in 2014.

Query :- select last\_name , hire\_date from employees where hire\_date Between '01-JAN-14' and '31-DEC-14'

Output :-

The screenshot displays the Oracle Live SQL web interface. The browser address bar shows the URL: `livesql.oracle.com/apex/?p=590:1:3000125096686:NO:RP::`. The page header includes the "Live SQL" logo, a user profile for "shaikh.md.umair2000@gmail.com", and links for "Feedback" and "Help". Below the header, the "SQL Worksheet" section contains a text editor with the following SQL query:

```
1 select last_name , hire_date from employees where hire_date Between '01-JAN-14' and '31-DEC-14'
```

Below the query editor, the output area displays the message "no data found". At the bottom of the interface, a footer provides copyright information: "© 2022 Oracle - Live SQL 22.1.1, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym". The Windows taskbar at the very bottom shows the system clock as 15:59 on 23-01-2022, along with weather information (24°C Haze) and various system icons.

8. Create a report to display the last name and job title of all employees who do not have a manager.

Query :- Select last\_name,job\_id from employees where manager\_id is null

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.crade.com/apex/?p=590:1:3000125096686:NO:RP:`. The page header includes the 'Live SQL' logo, a 'Feedback' link, a 'Help' link, and a user profile for 'shaikh.md.umair2000@gmail.com'. Below the header, the 'SQL Worksheet' section contains a text editor with the following SQL query:

```
1 select last_name,job_id from employees where manager_id is null
2
```

Below the editor, the query results are displayed in a table:

LAST_NAME	JOB_ID
King	AD_PRES

A 'Download CSV' link is located below the table. The footer of the interface shows the copyright notice: '© 2022 Oracle - Live SQL 22.1.1, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym'. It also mentions 'Built with ♥ using Oracle APEX - Privacy - Terms of Use'. The Windows taskbar at the bottom shows the system clock as 16:05 on 23-01-2022, with a battery level of 97% and a weather forecast of 23°C Haze.



9. Display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions. Use the column's numeric position in the ORDER BY clause.

Query:-

Select last\_name , salary ,commission\_pct from employees where commission\_pct is not null order by 2, 3 desc

Output:-

The screenshot shows the Oracle Live SQL interface in a web browser. The query entered is: `Select last_name , salary ,commission_pct from employees where commission_pct is not null order by 2, 3 desc`. The results are displayed in a table with columns LAST\_NAME, SALARY, and COMMISSION\_PCT. The data is sorted by salary in descending order, with employees having commissions listed last.

LAST_NAME	SALARY	COMMISSION_PCT
Kumar	6100	.1
Banda	6200	.1
Johnson	6200	.1
Arde	6400	.1
Lee	6800	.1
Sewall	7000	.25
Grant	7000	.15
Tuvault	7000	.15
Marvins	7200	.1
Bates	7300	.15
Smith	7400	.15
Doran	7500	.3
Cambrault	7500	.2
Smith	8000	.3
Olsen	8000	.2

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10. Display the last name and salary of employees who earn more than 12000

Query :- Select last\_name,salary from employees where salary > 12000

Output:-

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.oracle.com/apex/?p=590:1:3000125096686:NO:RP::`. The page title is "Live SQL". The "SQL Worksheet" section contains the query: `Select last_name,salary from employees where salary > 12000`. Below the query, the results are displayed in a table with two columns: "LAST\_NAME" and "SALARY". The table contains 8 rows of data. Below the table, there is a link to "Download CSV" and a note "8 rows selected.".

LAST_NAME	SALARY
King	24000
Kochhar	17000
De Haan	17000
Greenberg	12000
Russell	14000
Partners	13500
Hartstein	13000
Higgins	12000

Download CSV  
8 rows selected.

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11. Create a query that having employee ID, last name, salary, and department for

a) manager\_id = 103, sorted by last\_name

Query:- Select employee\_id,last\_name,salary,department\_id from employees order by last\_name

The screenshot shows the Oracle Live SQL interface. The query entered is: `Select employee_id,last_name,salary,department_id from employees order by last_name`. The results are displayed in a table with the following data:

EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID
174	Abel	11000	80
166	Ande	6400	80
130	Atkinson	2800	50
105	Austin	4800	60
204	Baer	10000	70
116	Baida	2900	30
167	Banda	6200	80
172	Bates	7300	80
192	Bell	4000	50
151	Bernstein	9500	80
129	Blissot	3300	50
169	Bloom	10000	80
185	Bull	4100	50
187	Cabrilo	3000	50
154	Cambrault	7500	80

b) manager\_id = 201, sorted by salary

Query:- Select employee\_id,last\_name,salary,department\_id from employees order by salary

The screenshot shows the Oracle Live SQL interface. The query entered is: `Select employee_id,last_name,salary,department_id from employees order by salary`. The results are displayed in a table with the following data:

EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID
132	Olson	2100	50
128	Markle	2200	50
136	Philtanker	2200	50
127	Landry	2400	50
135	Gee	2400	50
119	Colmenares	2500	30
131	Marlow	2500	50
140	Patel	2500	50
144	Vargas	2500	50
182	Sullivan	2500	50
191	Perkins	2500	50
118	Himuro	2600	30
143	Matos	2600	50
198	OConnell	2600	50
199	Grant	2600	50

c) manager\_id = 124, sorted by employee\_id

Query:- Select employee\_id,last\_name,salary,department\_id,manager\_id from employees where manager\_id =124 order by employee\_id

output:-

The screenshot shows the Oracle Live SQL web interface. The query entered is: `select employee_id,last_name,salary,department_id,manager_id from employees where manager_id =124 order by employee_id`. The results are displayed in a table with 8 rows.

EMPLOYEE_ID	LAST_NAME	SALARY	DEPARTMENT_ID	MANAGER_ID
141	Rajs	3500	50	124
142	Davies	3100	50	124
143	Matos	2600	50	124
144	Vargas	2500	50	124
196	Walsh	3100	50	124
197	Feeney	3000	50	124
198	OConnell	2600	50	124
199	Grant	2600	50	124

Download CSV  
8 rows selected.

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Windows taskbar at the bottom shows the search bar, task view, and system tray with date 23-01-2022 and time 16:37.

12. Display all employee last names in which the third letter of the name is “a.”  
Select last\_name from employees where last\_name like('\_\_a%')

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.crade.com/apex/?p=590:1:3000125096686:NO:RP:`. The page header includes the "Live SQL" logo, a user profile for "shaikh.md.umair2000@gmail.com", and links for "Feedback" and "Help".

The "SQL Worksheet" section contains the following SQL query:

```
1 select last_name from employees where last_name like('__a%')
2
3
```

Below the query editor, the results are displayed in a table with the column header "LAST\_NAME". The table contains three rows of data:

LAST_NAME
Grant
Grant
Whalen

Below the table, there is a "Download CSV" link and a message stating "3 rows selected.".

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The Windows taskbar at the bottom shows the system clock as 16:42 on 23-01-2022, with a temperature of 23°C and weather condition "Haze".

13. Display the last names of all employees who have both an “a” and “e” in their last name.

Query:- Select last\_name from employees where last\_name like('%a%') and last\_name like('%e%')

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.oracle.com/apex/?p=590:1:3000125096686:NO:RP:`. The page title is "Live SQL". The "SQL Worksheet" section contains the following query:

```
1 select last_name from employees where last_name like('%a%') and last_name like('%e%')
```

The results are displayed in a table with the following data:

LAST_NAME
De Haan
Favlet
Raphaely
Colmenares
Nayer
Markle
Philtanker
Patel
Davies
Partners
Sewall
Bates
Fleaur
Gates
Whalen

At the bottom of the page, there is a footer with copyright information: "© 2022 Oracle - Live SQL 22.1.1, running Oracle Database 19c Enterprise Edition - 19.8.0.0.0 - Database Documentation - Ask Tom - Dev Gym". Below the footer is a Windows taskbar with the search bar, task icons, and system tray showing the date and time as 16:46 on 23-01-2022.

14. Display the last name, job, and salary for all employees whose jobs are either those of a sales representative or of a stock clerk, and whose salaries are not equal to \$2,500, \$3,500, or \$7,000. Suppose. SA\_MAN = sales representative and ST\_CLERK = stock clerk

Query :- Select last\_name,job\_id,salary from employees where job\_id in('SA\_MAN','ST\_CLERK') and salary not in(7500,3500,2500)

Output:-

The screenshot shows the Oracle Live SQL interface. The query entered is: `1 select last_name,job_id,salary from employees where job_id in('SA_MAN','ST_CLERK') and salary not in(7500,3500,2500)`. The results are displayed in a table with columns LAST\_NAME, JOB\_ID, and SALARY.

LAST_NAME	JOB_ID	SALARY
Nayer	ST_CLERK	3200
Wickett	ST_CLERK	2700
Landry	ST_CLERK	2400
Markle	ST_CLERK	2200
Bissot	ST_CLERK	3300
Atkinson	ST_CLERK	2800
Olson	ST_CLERK	2100
Mullin	ST_CLERK	3300
Rogers	ST_CLERK	2900
Gee	ST_CLERK	2400
Philtanker	ST_CLERK	2200
Ladwig	ST_CLERK	3600
Stiles	ST_CLERK	3200
Seo	ST_CLERK	2700
Davies	ST_CLERK	3100

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15. Display the last name, salary, and commission for all employees whose commission is 20%.

Query:- select last\_name,commission\_pct from employees where commission\_pct < .20

Output:-

The screenshot shows the Oracle Live SQL web interface. The browser address bar displays the URL: `livesql.oracle.com/apex/?p=590:1:3000125096686:NO:RP:`. The page title is "Live SQL". The "SQL Worksheet" section contains the query: `select last_name,commission_pct from employees where commission_pct < .20`. Below the query, the results are displayed in a table with two columns: **LAST\_NAME** and **COMMISSION\_PCT**. The table lists 11 employees with their respective commission percentages. Below the table, there is a "Download CSV" link and the text "11 rows selected.".

LAST_NAME	COMMISSION_PCT
Tuvault	.15
Greene	.15
Marvins	.1
Lee	.1
Arde	.1
Banda	.1
Smith	.15
Bates	.15
Kumar	.1
Grant	.15
Johnson	.1

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