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1.

SELECT substr(e.FIRST\_NAME,1,1) || ' ' || e.LAST\_NAME as "Employee Name", j.JOB\_TITLE as "Job"

FROM EMPLOYEES e, JOBS j

WHERE j.JOB\_ID = e.JOB\_ID

order by j.JOB\_TITLE ASC;

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes 'ORACLE APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'App Gallery'. The 'SQL Commands' tab is active, displaying a query in the 'SQL Commands' editor. The query is:   
SELECT substr(e.FIRST\_NAME,1,1) || ' ' || e.LAST\_NAME as "Employee Name", j.JOB\_TITLE as "Job"  
FROM EMPLOYEES e, JOBS j  
WHERE j.JOB\_ID = e.JOB\_ID  
order by j.JOB\_TITLE ASC;  
The 'Results' tab is selected, showing a table with two columns: 'Employee Name' and 'Job'. The table contains six rows of data. The bottom status bar shows the copyright notice 'Copyright © 1999, 2019, Oracle. All rights reserved.' and the version 'Application Express 19.1.0.00.15'.

Employee Name	Job
S Higgins	Accounting Manager
J Whalen	Administration Assistant
N Kochhar	Administration Vice President
L De Haan	Administration Vice President
M Hartstein	Marketing Manager
P Fay	Marketing Representative

2.

```
SELECT substr(e.FIRST_NAME,1,1) || ' ' || e.LAST_NAME as "Employee Name", j.JOB_TITLE as "Job",  
j.min_salary || '-' || j.max_salary as "Salary Range", e.SALARY as "Employee's Salary"
```

```
FROM EMPLOYEES e, JOBS j
```

```
WHERE j.JOB_ID = e.JOB_ID
```

```
order by j.JOB_TITLE ASC;
```

The screenshot shows the Oracle APEX SQL Workshop interface. At the top, there are tabs for 'App Builder', 'SQL Workshop', 'Team Development', and 'App Gallery'. The 'SQL Workshop' tab is active. Below the tabs, there is a search bar and a schema dropdown set to 'ID\_A659\_SQL\_S95'. The main area displays a SQL command:

```
SELECT substr(e.FIRST_NAME,1,1) || ' ' || e.LAST_NAME as "Employee Name", j.JOB_TITLE as "Job", j.min_salary || '-' || j.max_salary as "Salary Range", e.SALARY as "Employee's Salary"  
FROM EMPLOYEES e, JOBS j  
WHERE j.JOB_ID = e.JOB_ID  
order by j.JOB_TITLE ASC;
```

Below the command, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is selected, showing a table with the following data:

Employee Name	Job	Salary Range	Employee's Salary
S Higgins	Accounting Manager	8200-16000	12000
J Whalen	Administration Assistant	3000-6000	4400
N Kochhar	Administration Vice President	15000-30000	17000
L De Haan	Administration Vice President	15000-30000	17000
M Hartstein	Marketing Manager	9000-15000	13000
P Fay	Marketing Representative	4000-9000	6000
S King	President	20000-40000	24000
D Lorentz	Programmer	4000-10000	4200
B Ernst	Programmer	4000-10000	6000

At the bottom of the interface, there is a Windows taskbar with the search bar and several application icons. The system clock shows 18:11 on 19/11/2020.

3.

select decode(manager\_id, NULL, 'Nobody', 'Somebody') "Works for", last\_name "Last Name"  
from employees;

Oracle APEX SQL Workshop interface showing the execution of a SQL query. The query is:

```
select decode(manager_id, NULL, 'Nobody', 'Somebody') "Works for", last_name "Last Name"
from employees;
```

The results are displayed in a table with two columns: **Works for** and **Last Name**.

Works for	Last Name
Nobody	King
Somebody	Kochhar
Somebody	De Haan
Somebody	Whalen
Somebody	Higgins
Somebody	Gietz
Somebody	Zlotkey
Somebody	Abel
Somebody	Taylor

4.

select e.last\_name, d.department\_name, l.city, l.state\_province from employees e join departments  
d on e.department\_id = d.department\_id join locations l on d.location\_id = l.location\_id  
order by e.last\_name ASC;

Oracle APEX SQL Workshop interface showing the execution of a SQL query. The query is:

```
select e.last_name, d.department_name, l.city, l.state_province from employees e join departments d on e.department_id = d.department_id join locations l on d.location_id = l.location_id
order by e.last_name ASC;
```

The results are displayed in a table with four columns: **LAST\_NAME**, **DEPARTMENT\_NAME**, **CITY**, and **STATE\_PROVINCE**.

LAST_NAME	DEPARTMENT_NAME	CITY	STATE_PROVINCE
Abel	Sales	Oxford	Oxford
Davies	Shipping	South San Francisco	California
De Haan	Executive	Seattle	Washington
Ernst	IT	Southlake	Texas
Fay	Marketing	Toronto	Ontario
Gietz	Accounting	Seattle	Washington
Hartstein	Marketing	Toronto	Ontario
Higgins	Accounting	Seattle	Washington
Hunold	IT	Southlake	Texas

5.

select last\_name, salary, grade\_level

from employees join job\_grades ON (salary between lowest\_sal and highest\_sal)

where department\_id >50

order by salary desc

The screenshot shows the Oracle APEX SQL Workshop interface. At the top, there are tabs for 'App Builder', 'SQL Workshop', 'Team Development', and 'App Gallery'. The 'SQL Workshop' tab is active. Below the tabs, there is a search bar and a 'Schema' dropdown set to 'ID\_A659\_SQL\_S95'. The main area contains a SQL command window with the following query:

```
select last_name, salary, grade_level
from employees join job_grades ON (salary between lowest_sal and highest_sal)
where department_id >50
order by salary desc
```

Below the command window, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, displaying a table with three columns: 'LAST\_NAME', 'SALARY', and 'GRADE\_LEVEL'. The table contains 9 rows of data, sorted by salary in descending order.

LAST_NAME	SALARY	GRADE_LEVEL
King	24000	E
De Haan	17000	E
Kochhar	17000	E
Higgins	12000	D
Abel	11000	D
Zlotkey	10500	D
Hunold	9000	C
Taylor	8600	C
Gietz	8300	C

At the bottom of the interface, there is a footer with the text 'Copyright © 1999, 2019, Oracle. All rights reserved.' and 'Application Express 19.1.0.00.15'. The Windows taskbar is visible at the very bottom, showing the search bar and several application icons.

6.

select e.last\_name, d.department\_name "Department" from employees e right outer join  
departments d on e.department\_id = d.department\_id

order by d.department\_id

The screenshot shows the Oracle APEX SQL Workshop interface. At the top, there are tabs for 'App Builder', 'SQL Workshop', 'Team Development', and 'App Gallery'. The 'SQL Workshop' tab is active. Below the tabs, there is a search bar and a schema dropdown menu set to 'ID\_A659\_SQL\_S95'. The main area contains a SQL command editor with the following query:

```
select e.last_name, d.department_name "Department" from employees e right outer join departments d on e.department_id = d.department_id
order by d.department_id
```

Below the editor, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, displaying a table with two columns: 'LAST\_NAME' and 'Department'. The table contains the following data:

LAST_NAME	Department
Whalen	Administration
Fay	Marketing
Hartstein	Marketing
Rajs	Shipping
Vargas	Shipping
Mourgos	Shipping
Matos	Shipping
Davies	Shipping
Ernst	IT

At the bottom of the interface, there is a taskbar with various application icons and a system tray showing the time as 18:19 on 19/11/2020.

7.

```
select e.first_name || ' ' || e.last_name || ' sebagai ' || e.job_id || ' dengan gaji ' || to_char(e.salary, '$99999.99') || ' dan meminta kenaikan gaji sebesar ' || to_char(j.max_salary, '$99999.99') "Review"
```

```
FROM EMPLOYEES e, JOBS j
```

```
WHERE j.JOB_ID = e.JOB_ID
```

```
and j.max_salary between 12000 and 15000
```

```
order by e.first_name ASC;
```

The screenshot shows the Oracle APEX SQL Workshop interface. The top navigation bar includes tabs for APEX, App Builder, SQL Workshop (selected), Team Development, and App Gallery. The SQL Commands tab is active, displaying a query in the editor. The query is as follows:

```
select e.first_name || ' ' || e.last_name || ' sebagai ' || e.job_id || ' dengan gaji ' || to_char(e.salary, '$99999.99') || ' dan meminta kenaikan gaji sebesar ' || to_char(j.max_salary, '$99999.99') "Review"
FROM EMPLOYEES e, JOBS j
WHERE j.job_id = e.job_id
and j.max_salary between 12000 and 15000
order by e.first_name ASC;
```

Below the editor, the 'Results' tab is selected, showing a table with the following data:

Review
Ellen Abel sebagai SA_REP dengan gaji \$11000.00 dan meminta kenaikan gaji sebesar \$12000.00
Jonathon Taylor sebagai SA_REP dengan gaji \$8600.00 dan meminta kenaikan gaji sebesar \$12000.00
Kimberely Grant sebagai SA_REP dengan gaji \$7000.00 dan meminta kenaikan gaji sebesar \$12000.00
Michael Hartstein sebagai MK_MAN dengan gaji \$13000.00 dan meminta kenaikan gaji sebesar \$15000.00

At the bottom of the results section, it states "4 rows returned in 0.00 seconds" with a "Download" link. The footer of the application shows the copyright information and the version "Application Express 19.1.0.00.15". The Windows taskbar is visible at the bottom of the screen.