

1. Show minimum, average and maximum salary in last 15 years according to job id.

```
select min(salary), avg(salary), max(salary), job_id
from hr.employees
where extract(year from sysdate)-extract(year from hire_date)>=15
group by job_id ;
```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar is open, showing a connection to 'hr'. The 'Worksheet' tab has a query builder window containing the provided SQL code. Below it is a 'Query Result' window displaying the output:

	MIN(SALARY)	AVG(SALARY)	MAX(SALARY)	JOB_ID
1	17000	17000	17000	AD VP
2	6900	7920	9000	FI ACCOUNT
3	2500	2780	3100	PU CLERK
4	1000	1500	1700	SA LEAD
5	6500	6500	6500	HR REP
6	11000	11000	11000	PU MAN
7	12008	12008	12008	AC MGR
8	2100	2785	3600	ST CLERK
9	4400	4400	4400	AD ASST
10	4200	5760	9000	IT PROG
11	10500	12200	14000	SA MAN
12	8300	8300	8300	AC ACCOUNT
13	1000	1200	1200	SA ST CLERK
14	5800	7280	8200	ST MAN
15	24000	24000	24000	AD PRES
16	13000	13000	13000	MK MAN
17	6100	8350	11500	SA REP
18	6000	6000	6000	MK REP

2. How many employees hired after 2005 for each department?

```
--first_name,commission_pct,
sum(case
when commission_pct is null then salary
else 0 end)
from hr.employees;
```

```
select count(*),department_id
from hr.employees
where hire_date>='2005-12-31'
group by department_id ;
```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar is open, showing a connection to 'hr'. The 'Worksheet' tab has a query builder window containing the provided SQL code. Below it is a 'Query Result' window displaying the output:

COUNT(*)	DEPARTMENT_ID
1	26
2	2
3	1 (null)
4	4
5	2
6	19
	50
	30
	60
	100
	80

3. Write a query to show departments in which the difference between maximum and minimum salary is greater than 5000.

Oracle SQL Developer : hr

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Connections Oracle Connections

test.sql hr.sql Welcome Page

Run Statement (Ctrl+Enter)

```
=select min(salary),avg(salary),max(salary),job_id
  from hr.employees
 where extract(year from sysdate)-extract(year from hire_date))>=15
 group by job_id ;

select department_id,max(salary)-min(salary) salary_diff
  from hr.employees
 group by department_id having (max(salary)-min(salary))>5000;
```

Query Result x All Rows Fetched: 6 in 0.006 seconds

DEPARTMENT_ID	SALARY_DIFF
1	50
2	90
3	30
4	20
5	100
6	80

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4. Display salaries of employees who has not commission pact according to departments (without using where).

Oracle SQL Developer : hr

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Connections Oracle Connections

test.sql hr.sql Welcome Page

Worksheet Query Builder

```
=select
  first_name,commission_pct,
  sum(case
    when commission_pct is null then salary
    else 0 end)
  from hr.employees;
```

Query Result x All Rows Fetched: 1 in 0.009 seconds

SUM(CASEWHENCOMMISSION_PCTISNULLTHENSALARYELSEEND)
379916

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5. How many people has job id with average salary between 3000 and 7000?

Oracle SQL Developer : hr

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Connections Oracle Connectors hr

Worksheet Query Builder

```

select
--first_name,commission_pct,
sum(case
when commission_pct is null then salary
else 0 end)
from hr.employees;

select count(*)
from hr.employees
having avg(salary)between 3000 and 7000 ;

```

Query Result x

All Rows Fetched: 1 in 0.002 seconds

COUNT(*)
1 107

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Rainy days ahead 50°F Search ENG 10:34 pm 04/12/2025

6. Find number of employees with same name.

Oracle SQL Developer : hr

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Connections Oracle Connectors hr

Worksheet Query Builder

```

select
--first_name,commission_pct,
sum(case
when commission_pct is null then salary
else 0 end)
from hr.employees;

select first_name,count(*)
from hr.employees group by first name
having count(*)>1

```

Query Result x

All Rows Fetched: 13 in 0.009 seconds

FIRST_NAME	COUNT(*)
David	3
Alexander	2
Randall	2
Karen	2
Julia	2
William	2
Peter	3
Jane	2
Steven	2
John	3
Jennifer	2
Kevin	2
Michael	2

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7. How many people with the same phone code work in departments 50 and 90?

Oracle SQL Developer : hr

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Connections Oracle Connectors Oracle

Worksheet Query Builder

```

=select
  --first_name,commission_pct,
  sum(case
  when commission_pct is null then salary
  else 0 end)
  from hr.employees;

=select count(*),substr(phone_number,1,3)ph_code
from hr.employees
where department_id in(50,90)
group by substr(phone number,1,3);

```

Query Result x

count(*)	PH_CODE
1	3 515
2	45 650

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7 50°F Cloudy Search ENG 10:37 pm 04/12/2025

8. Display departments with count of employees more than 5 in spring and autumn.

Oracle SQL Developer : hr

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Connections Oracle Connectors Oracle

Worksheet Query Builder

```

=select
  --first_name,commission_pct,
  sum(case
  when commission_pct is null then salary
  else 0 end)
  from hr.employees;

=select department_id,count(*)
from hr.employees
where extract(month from hire_date)in(3,4,5,9,10,11)
group by department_id having count(*)>5

```

Query Result x

DEPARTMENT_ID	COUNT(*)
1	50
2	80

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9. How many employees work in departments which has maximum salary more than 5000?

Oracle SQL Developer : hr

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Connections Oracle Connectors Oracle Connections hr Tables (Filtered) Views Indexes Packages Procedures Functions Operators Queues Queues Tables Triggers Types Sequences Materialized Views Materialized View Logs Synonyms Public Synonyms Database Links Public Database Links Directories Editions XML Schemas Reports All Reports Analytic View Reports Data Dictionary Reports Data Modeler Reports OLAP Reports TimeTen Reports User Defined Reports

test.sql hr.sql Welcome Page hr

Worksheet Query Builder

```

--select
--first_name,commission_pct,
sum(case
when commission_pct is null then salary
else 0 end)
from hr.employees;

select department_id,count(*)
from hr.employees
group by department_id having max(salary)>5000;

```

Query Result x SQL All Rows Fetched: 11 in 0.005 seconds

DEPARTMENT_ID	COUNT(*)
1	50
2	40
3	110
4	90
5	30
6	70
7	(null)
8	20
9	60
10	100
11	80
	34

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10. Change second letter of employees' names with the last letter and display.

Oracle SQL Developer : hr

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Connections Oracle Connectors Oracle Connections hr Tables (Filtered) Views Indexes Packages Procedures Functions Operators Queues Queues Tables Triggers Types Sequences Materialized Views Materialized View Logs Synonyms Public Synonyms Database Links Public Database Links Directories Editions XML Schemas Reports All Reports Analytic View Reports Data Dictionary Reports Data Modeler Reports OLAP Reports TimeTen Reports User Defined Reports

test.sql hr.sql Welcome Page hr

Worksheet Query Builder

```

--select
--first_name,commission_pct,
sum(case
when commission_pct is null then salary
else 0 end)
from hr.employees;

SELECT first_name,
SUBSTR(first_name,1,1) ||
SUBSTR(first_name,-1,1) ||
SUBSTR(first_name,3, LENGTH(first_name)-3) ||
SUBSTR(first_name,2,1) from hr.employees;

```

Query Result x SQL Fetched 50 rows in 0.01 seconds

FIRST_NAME	
Ellen	Enlel
Sundar	Srndau
Moze	Mezho
David	Ddvia
Hermann	Hnrmane
Shelli	Siellh
Amit	Atim
Elizabeth	Ehizabetl
Sarah	Shraa
David	Ddvia
Laura	Lauraa
Harrison	Hnrrisoa
Alexis	Asexil
Anthony	Aythonn
Gerald	Gdrale
Nanette	Nenetta
John	Jnho
Kelly	Kylle

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