

Database Assignment # 1

Muhammad Mujtaba Afzal 14882

1. select * from jobs where min_salary > 10000

Results			
Explain Describe Saved SQL History			
JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
AD_PRES	President	20000	40000
AD_VP	Administration Vice President	15000	30000
2 rows returned in 0.03 seconds Download			

2. select first_name, hire_date from employees where to_char(hire_date, 'yyyy') between '2002' AND '2005'

ORACLE APEX				
App Builder	SQL Workshop	Team Development	App Gallery	
SQL Commands				
Rows	500	Clear Command	Find Tables	
select first_name, hire_date from employees where to_char(hire_date, 'yyyy') between '2002' AND '2005'				
Results				
Explain Describe Saved SQL History				
no data found				

3. select first_name, hire_date from employees where job_id='IT_PROG' OR job_id='SA_MAN'

Results		Explain Describe Saved SQL History	
FIRST_NAME		HIRE_DATE	
Alexander		01/03/1990	
Bruce		05/21/1991	
David		06/25/1997	
Valli		02/05/1998	
Diana		02/07/1999	
John		10/01/1996	
Karen		01/05/1997	
Alberto		03/10/1997	

4. select * from employees where hire_date > '01/01/2008'

SQL Commands	
Rows	500
Clear Command	Find Tables
select * from employees where hire_date > '01/01/2008'	
Results	
Explain Describe Saved SQL History	
no data found	

5. select * from employees where employee_id in ('150','160')

Results										
Explain Describe Saved SQL History										
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
150	Peter	Tucker	PTUCKER	011.44.1344.129268	01/30/1997	SA_REP	10000	.3	145	80
160	Louise	Doran	LDORAN	011.44.1345.629268	12/15/1997	SA_REP	7500	.3	146	80
2 rows returned in 0.01 seconds Download										

6.select first_name, salary, commission_pct, hire_date from employyes where salary<10000

Results	Explain	Describe	Saved SQL	History
FIRST_NAME	SALARY	COMMISSION_PCT	HIRE_DATE	
Alexander	9000	-	01/03/1990	
Bruce	6000	-	05/21/1991	
David	4800	-	06/25/1997	
Valli	4800	-	02/05/1998	
Diana	4200	-	02/07/1999	
Daniel	9000	-	08/16/1994	
John	8200	-	09/28/1997	
Ismael	7700	-	09/30/1997	

7.select first_name, round(salary,-3) from employees

Results	Explain	Describe	Saved SQL	History
FIRST_NAME	ROUND(SALARY,-3)			
Steven	24000			
Neena	17000			
Lex	17000			
Alexander	9000			
Bruce	6000			
David	5000			
Valli	5000			

8.select * from employees order by job_id desc

Results	Explain	Describe	Saved SQL	History							
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	
123	Shanta	Vollman	SVOLLMAN	650.123.4234	10/10/1997	ST_MAN	6500	-	100	50	
122	Payam	Kaufling	PKAUFLIN	650.123.3234	05/01/1995	ST_MAN	7900	-	100	50	
121	Adam	Fripp	AFRIPP	650.123.2234	04/10/1997	ST_MAN	8200	-	100	50	
120	Matthew	Weiss	MWEISS	650.123.1234	07/18/1996	ST_MAN	8000	-	100	50	

9.select * from employees where substr(first_name,1,1)='S' OR substr(last_name,1,1)='S'

Results	Explain	Describe	Saved SQL	History						
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	06/17/1987	AD PRES	24000	-	-	90
111	Ismael	Sciarra	ISCIARRA	515.124.4369	09/30/1997	FI_ACCOUNT	7700	-	108	100
116	Shell	Baida	SBAIDA	515.127.4563	12/24/1997	PU_CLERK	2900	-	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	07/24/1997	PU_CLERK	2800	-	114	30
123	Shanta	Vollman	SVOLLMAN	650.123.4234	10/10/1997	ST_MAN	6500	-	100	50
128	Steven	Markle	SMARKLE	650.124.1434	03/08/2000	ST_CLERK	2200	-	120	50
138	Stephen	Stiles	SSTILES	650.121.2034	10/26/1997	ST_CLERK	3200	-	123	50
139	John	Seo	JSEO	650.121.2019	02/12/1998	ST_CLERK	2700	-	123	50

10.select * from employees where to_char(hire_date,'mm')=05

Results	Explain	Describe	Saved SQL	History							
EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID	
104	Bruce	Ernst	BERNST	590.423.4568	05/21/1991	IT_PROG	6000	-	103	60	
115	Alexander	Khoo	AKHOO	515.127.4562	05/18/1995	PU_CLERK	3100	-	114	30	
122	Payam	Kaufling	PKAUFLIN	650.123.3234	05/01/1995	ST_MAN	7900	-	100	50	
174	Ellen	Abel	EABEL	011.44.1644.429267	05/11/1996	SA_REP	11000	.3	149	80	
178	Kimberely	Grant	KGRANT	011.44.1644.429263	05/24/1999	SA_REP	7000	.15	149	-	
197	Kevin	Feeney	KFEENEY	650.507.9822	05/23/1998	SH_CLERK	3000	-	124	50	
6 rows returned in 0.01 seconds					Download						

11. select * from employees where commission_pct is null AND salary between '5000' AND '10000' AND department_id='30'

select * from employees where commission_pct is null AND salary between '5000' AND '10000' AND department_id='30'
Results Explain Describe Saved SQL History
no data found

12. select first_name, LAST_DAY(hire_date) AS Salary_date from employees

Results Explain Describe Saved SQL History

FIRST_NAME	SALARY_DATE
Steven	06/30/1987
Neena	09/30/1989
Lex	01/31/1993
Alexander	01/31/1990
Bruce	05/31/1991
David	06/30/1997
Valli	02/28/1998
Diana	02/28/1999

13. select first_name, (sysdate - hire_date)/365 AS Experience from employees

Results	Explain	Describe	Saved SQL	History
FIRST_NAME				EXPERIENCE
Steven				32.2316496702181633688483003551496702181
Neena				29.9658962455606291222729578893962455606
Lex				26.65082775240994419076610857432775241
Alexander				29.6809647387113140537798072044647387112
Bruce				28.3028825469304921359715880263825469304
David				22.2015126839167935058346017250126839168
Valli				21.5850743277524099441907661085743277524
Diana				20.5795948756976154236428209030948756976

14. select first_name from employees where to_char(hire_date,'yyyy')='2001'

select first_name from employees where to_char(hire_date,'yyyy')='2001'
Results Explain Describe Saved SQL History
no data found

15. select upper(substr(first_name,1,1)) || substr(first_name,2,length(first_name)), upper(substr(last_name,1,1)) || substr(last_name,2,length(last_name)) from employees

select upper(substr(first_name,1,1)) || substr(first_name,2,length(first_name)), upper(substr(last_name,1,1)) || substr(last_name,2,length(last_name)) from employees

Results

ExplainDescribeSaved SQLHistory

UPPER(SUBSTR(FIRST_NAME,1,1)) SUBSTR(FIRST_NAME,2,LENGTH(FIRST_NAME))	UPPER(SUBSTR(LAST_NAME,1,1)) SUBSTR(LAST_NAME,2,LENGTH(LAST_NAME))
Steven	King
Neena	Kochhar
Lex	De Haan
Alexander	Hunold
Bruce	Ernst
David	Austin

16.select first_name, last_name, length(first_name) from employees where instr(last_name, 'b')>3

```
select first_name, last_name, length(first_name) from employees where instr(last_name, 'b')>3
```

FIRST_NAME	LAST_NAME	LENGTH(FIRST_NAME)
Valli	Pataballa	5
Nancy	Greenberg	5
Gerald	Cambrault	6
Nanette	Cambrault	7

4 rows returned in 0.01 seconds

17.select upper(first_name), lower(email) from employees where lower(first_name) = lower(email)

```
select upper(first_name), lower(email) from employees where lower(first_name) = lower(email)
```

no data found

18.select * from employees where to_char(hire_date,'yyyy')=2019

```
select * from employees where to_char(hire_date,'yyyy')=2019
```

no data found

19.select sysdate - to_date('01/01/2011') from employees

```
sysdate-to_date('01/01/2011')
```

3165.58542824074074074074074074
3165.58542824074074074074074074
3165.58542824074074074074074074
3165.58542824074074074074074074
3165.58542824074074074074074074
3165.58542824074074074074074074
3165.58542824074074074074074074
3165.58542824074074074074074074

20.select to_char(hire_date, 'month') AS Month, count(hire_date) from employees where to_char(hire_date,'yyyy')=to_char(sysdate,'yyyy') group by to_char(hire_date,'month')

```
select to_char(hire_date, 'month') AS Month, count(hire_date) from employees where to_char(hire_date,'yyyy')=to_char(sysdate,'yyyy') group by to_char(hire_date,'month')
```

no data found

21.select manager_id, count(employee_id) AS Number_of_Employees from employees group by manager_id

MANAGER_ID	NUMBER OF EMPLOYEES
108	5
124	8
121	8
145	6
-	1
103	4
101	5
120	8

22.select employee_id, max(end_date) from job_history group by employee_id

Results		Explain	Describe	Saved SQL	History
EMPLOYEE_ID	MAX(END_DATE)				
101	03/15/1997				
102	07/24/1998				
114	12/31/1999				
122	12/31/1999				
176	12/31/1999				
200	12/31/1998				
201	12/19/1999				

7 rows returned in 0.00 seconds [Download](#)

23.select to_char(hire_date, 'month') AS Month, count(employee_id) from employees where to_char(hire_date, 'dd')>'15' group by to_char(hire_date, 'month')

select to_char(hire_date, 'month') AS Month, count(employee_id) from employees where to_char(hire_date, 'dd')>'15' group by to_char(hire_date, 'month')	
Results	
MONTH	COUNT(EMPLOYEE_ID)
july	3
february	6
april	4
may	4
june	5
august	6
december	2
september	5

24.select country_id, count(city) from locations group by country_id

COUNTRY_ID	COUNT(CITY)
CN	1
CH	2
NL	1
JP	2
SG	1
DE	1
MX	1
IT	2
US	4

25. select department_id, avg(salary) from employees where commission_pct is NOT null group by department_id

```
select department_id, avg(salary) from employees where commission_pct is NOT null group by department_id
```

DEPARTMENT_ID	AVG(SALARY)
7000	
80	8955.88235294117647058823529411764705882

2 rows returned in 0.00 seconds [Download](#)

26. select job_id, count(employee_id), sum(salary), max(salary)-min(salary) from employees group by job_id

```
select job_id, count(employee_id), sum(salary), max(salary)-min(salary) from employees group by job_id
```

JOB_ID	COUNT(EMPLOYEE_ID)	SUM(SALARY)	MAX(SALARY)-MIN(SALARY)
AD_VP	2	34000	0
FI_ACCOUNT	5	39600	2100
PU_CLERK	5	13900	600
SH_CLERK	20	64300	1700
HR_REP	1	6500	0
PU_MAN	1	11000	0
AC_MGR	1	12000	0
ST_CLERK	20	55700	1500

27. select job_id from employees group by job_id having avg(salary)>10000

```
select job_id from employees group by job_id having avg(salary)>10000
```

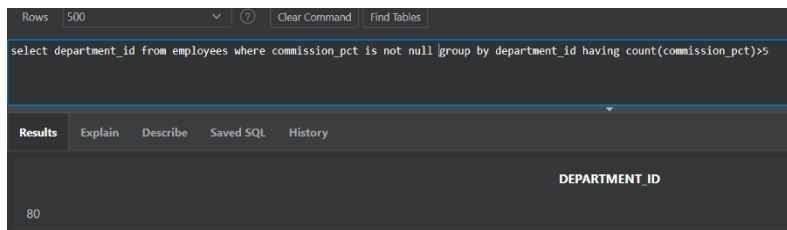
JOB_ID
AD_VP
PU_MAN
AC_MGR
SA_MAN
FI_MGR
AD PRES
MK MAN

28. select to_char(hire_date,'yyyy') AS Year from employees group by to_char(hire_date,'yyyy') having count(employee_id)>10

```
select to_char(hire_date,'yyyy') AS Year from employees group by to_char(hire_date,'yyyy') having count(employee_id)>10
```

YEAR
1998
1997
2000
1999

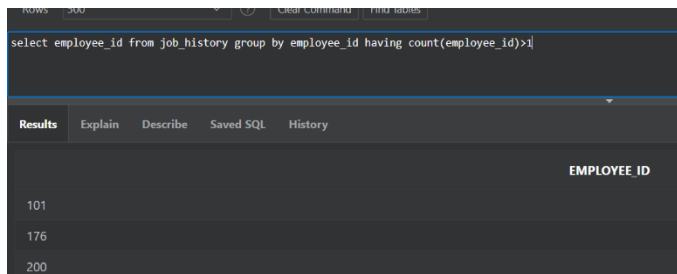
29. select department_id from employees where commission_pct is not null group by department_id having count(commission_pct)>5



The screenshot shows a SQL query interface with the command: `select department_id from employees where commission_pct is not null group by department_id having count(commission_pct)>5`. The results tab is active, displaying a single row with the value 80 under the column header DEPARTMENT_ID.

DEPARTMENT_ID
80

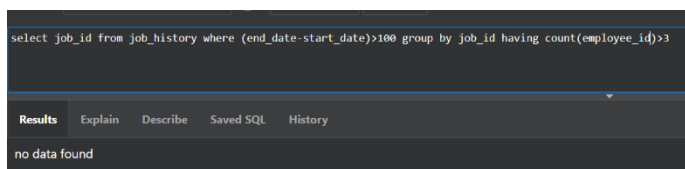
30. select employee_id from job_history group by employee_id having count(employee_id)>1



The screenshot shows a SQL query interface with the command: `select employee_id from job_history group by employee_id having count(employee_id)>1`. The results tab is active, displaying three rows with values 101, 176, and 200 under the column header EMPLOYEE_ID.

EMPLOYEE_ID
101
176
200

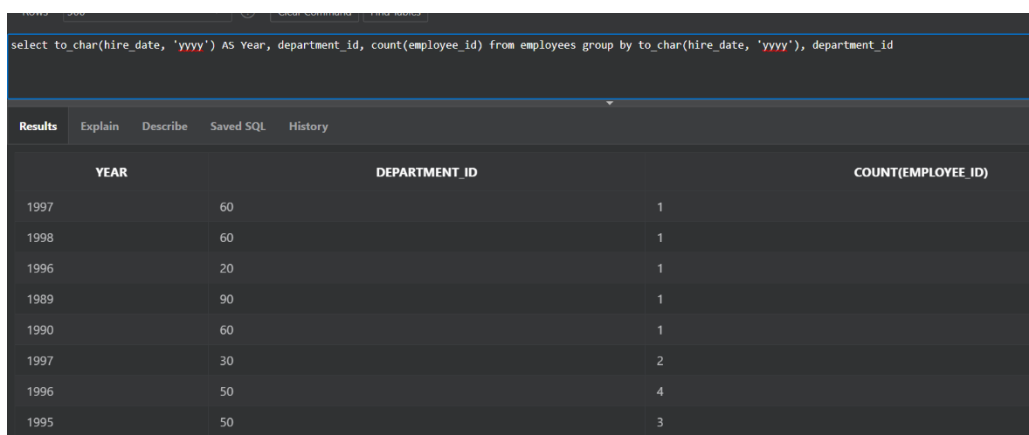
31. select job_id from job_history where (end_date-start_date)>100 group by job_id having count(employee_id)>3



The screenshot shows a SQL query interface with the command: `select job_id from job_history where (end_date-start_date)>100 group by job_id having count(employee_id)>3`. The results tab is active, displaying the text "no data found".

no data found

32. select to_char(hire_date, 'yyyy') AS Year, department_id, count(employee_id) from employees group by to_char(hire_date, 'yyyy'), department_id



The screenshot shows a SQL query interface with the command: `select to_char(hire_date, 'yyyy') AS Year, department_id, count(employee_id) from employees group by to_char(hire_date, 'yyyy'), department_id`. The results tab is active, displaying a table with three columns: YEAR, DEPARTMENT_ID, and COUNT(EMPLOYEE_ID). The data is grouped by year and department_id.

YEAR	DEPARTMENT_ID	COUNT(EMPLOYEE_ID)
1997	60	1
1998	60	1
1996	20	1
1989	90	1
1990	60	1
1997	30	2
1996	50	4
1995	50	3