HARI PRASATH S 225229110

admininstration

200

1700

10

JOINS

SQL> create table deprt(department_id number(10),department_name varchar(16),manager_id number(10), location id number(10)); Table created. SQL> desc deprt; Null? Type Name DEPARTMENT_ID NUMBER(10) DEPARTMENT_NAME
MANAGER_ID VARCHAR2(16) NUMBER(10) LOCATION_ID NUMBER(10) SQL> insert into deprt values(10, 'admininstration', 200, 1700); 1 row created. SQL> insert into deprt values(20, 'marketing', 201, 1700); 1 row created. SQL> insert into deprt values(30, 'purchasing', 202, 1800); 1 row created. SQL> insert into deprt values(40, 'humanresource', 203, 1900); 1 row created. SQL> insert into deprt values(50, 'payroll', 204, 1700); 1 row created. SQL> insert into deprt values(60, 'shipping', 205, 1900); 1 row created. SQL> insert into deprt values(70, 'sales', 206, 1700); 1 row created. SQL> insert into deprt values(80, 'contracting', 207, 1700); 1 row created. SQL> select * from deprt; DEPARTMENT_ID DEPARTMENT_NAME MANAGER_ID LOCATION_ID

20	marketing	201	1700
30	purchasing	202	1800
40	humanresource	203	1900
50	payroll	204	1700
60	shipping	205	1900
70	sales	206	1700
80	contracting	207	1700

8 rows selected.

SQL> create table empl(emp_id number(10),first_name varchar(10),last_name varchar(10),hire_date varchar(13),job_id varchar(10),salary varchar(10),commission_pct varchar(10),manager_id number(10),department_id number(10));

Table created.

SQL> desc empl;

Name	Null? Type
EMP_ID	NUMBER(10)
FIRST_NAME	VARCHAR2(10)
LAST_NAME	VARCHAR2(10)
HIRE_DATE	VARCHAR2(13)
JOB_ID	VARCHAR2(10)
SALARY	VARCHAR2(10)
COMMISSION_PCT	VARCHAR2(10)
MANAGER_ID	NUMBER(10)
DEPARTMENT_ID	NUMBER(10)

SQL> insert into empl values(100,'swetha','jenifer','10-DEC-2021','M_P',70000.00,0.10,201,20);

1 row created.

SQL> insert into empl values(101, 'chandler', 'bing', '11-AUG-2021', 'HR', 45000.00, 0.19, 203, 40);

1 row created.

SQL> insert into empl values(102, 'monica', 'geller', '24-SEP-2021', 'P_EMP', 13000.00, 0.20, 202, 30);

1 row created.

SQL> insert into empl values(103, 'racheal', 'green', '10-SEP-2020', 'A_VP', 25000.00, 0.16, 200, 10);

1 row created.

SQL> insert into empl values(104, 'phoebe', 'buffay', '11-FEB-2021', 'M_VP', 60000.00, 0.30, 201, 20);

1 row created.

SQL> insert into empl values(105, 'ross', 'geller', '18-MAY-2022', 'S_EMP', 10000.00, 0.13, 206, 70);

1 row created.

SQL> insert into empl values(106, 'dinesh', 'kumar', '17-MAR-2022', 'PY_EMP', 12000.00, 0.16, 204, 50);

1 row created.

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1 row created.
SQL> insert into empl values(108, 'yoga', 'eshwari', '01-SEP-2021', 'S EXE', 35000.00, 0.10, 206, 70);
1 row created.
SQL> insert into empl values(109, 'rolex', 'suriya', '11-NOV-2021', 'A_EXE', 50000.00, 0.11, 200, 10);
1 row created.
SQL> insert into empl values(110, 'newlin', 'blessy', '09-JUN-2021', 'P_EXE', 25000.00, 0.10, 202, 30);
1 row created.
SQL> insert into empl values(111, 'joshwa', 'peter', '18-JUL-2020', 'SP_EXE', 36000.00, 0.16, 205, 60);
1 row created.
SQL> insert into empl values(112, 'sam', 'victor', '09-JAN-2020', 'CNTR', 40000.00, 0.14, 207, 80);
1 row created.
SQL> insert into empl values(113, 'harish', 'umesh', '03-DEC-2021', 'S_MD', 23000.00, 0.10, 206, 70);
1 row created.
SQL> select * from empl;
 EMP_ID FIRST_NAME LAST_NAME HIRE_DATE JOB_ID SALARY COMMISSION
______
MANAGER_ID DEPARTMENT_ID
   100 swetha jenifer 10-DEC-2021 M_P 70000 .1
   101 chandler bing 11-AUG-2021 HR 45000 .19
   203
            40
   102 monica geller 24-SEP-2021 P_EMP 13000
   202 30
  EMP_ID FIRST_NAME LAST_NAME HIRE_DATE JOB_ID SALARY COMMISSION
MANAGER ID DEPARTMENT ID
   103 racheal green 10-SEP-2020 A_VP 25000 .16
   200 10
   104 phoebe buffay 11-FEB-2021 M_VP 60000
   105 ross geller 18-MAY-2022 S_EMP 10000 .13
```

SQL> insert into empl values(107, 'hari', 'prasath', '09-OCT-2021', 'C_MD', 45000.00, 0.18, 207, 80);

------MANAGER ID DEPARTMENT ID 106 dinesh kumar 17-MAR-2022 PY_EMP 12000 .16 204 50 107 hari prasath 09-OCT-2021 C_MD 45000 .18 207 80 108 yoga eshwari 01-SEP-2021 S_EXE 35000 .1 206 70 EMP_ID FIRST_NAME LAST_NAME HIRE_DATE JOB_ID SALARY COMMISSION MANAGER ID DEPARTMENT ID 109 rolex suriya 11-NOV-2021 A_EXE 50000 .11 110 newlin blessy 09-JUN-2021 P_EXE 25000 .1 202 30 111 joshwa peter 18-JUL-2020 SP_EXE 36000 .16 205 60 EMP_ID FIRST_NAME LAST_NAME HIRE_DATE JOB_ID SALARY COMMISSION ------MANAGER ID DEPARTMENT ID 112 sam victor 09-JAN-2020 CNTR 40000 .14 207 80

14 rows selected.

206 70

1. Write a SQL query to find the first name, last name, department number, and department name for each employee.

113 harish umesh 03-DEC-2021 S_MD 23000 .1

SQL> SELECT E.first_name , E.last_name , E.department_id , D.department_name FROM empl E JOIN deprt D ON E.department_id = D.department_id;

FIRST_NAME LAST_NAME DEPARTMENT_ID DEPARTMENT_NAME

swetha jenifer 20 marketing
chandler bing 40 humanresource
monica geller 30 purchasing
racheal green 10 admininstration
phoebe buffay 20 marketing
ross geller 70 sales
dinesh kumar 50 payroll
hari prasath 80 contracting

yoga eshwari 70 sales rolex suriya 10 admininstr newlin blessy 30 purchasing 10 admininstration

FIRST_NAME LAST_NAME DEPARTMENT_ID DEPARTMENT_NAME

joshwa peter 60 shipping sam victor 80 contracting harish umesh 70 sales

14 rows selected.

2. write a SQL query to find the first name, last name, department, for each employee

SQL> SELECT E.first name, E.last name, D.department name FROM empl E JOIN deprt D ON E.department_id = D.department id;

FIRST NAME LAST NAME DEPARTMENT NAME

swetha jenifer marketing chandler bing humanresource monica geller purchasing racheal green admininstration phoebe buffay marketing ross geller sales

dinesh kumar payroll hari prasath contracting yoga eshwari sales

rolex suriya admininstration newlin blessy purchasing

FIRST NAME LAST NAME DEPARTMENT NAME

joshwa peter shipping sam victor contracting harish umesh sales

14 rows selected.

3. write a SQL query to find the first name, last name, salary, and job grade for all employees.

SQL> create table job_grades(grade_level varchar(1),lowest_sal varchar(10),highest varchar(10));

Table created.

SQL> insert into job_grades values('A',10000.00,12000.00);

1 row created.

SQL> insert into job_grades values('B',13000.00,15000.00);

1 row created.

SQL> insert into job_grades values('C',20000.00,25000.00);

1 row created.

SQL> insert into job_grades values('D',30000.00,39000.00);

1 row created.

SQL> insert into job_grades values('E',40000.00,70000.00);

1 row created.

SQL> select * from job_grades;

G LOWEST_SAL HIGHEST

A 10000	12000		
B 13000	15000		
C 20000	25000		
D 30000	39000		
E 40000	70000		

SQL> SELECT E.first_name, E.last_name, E.salary, J.grade_level FROM empl E JOIN job_grades J ON E.salary BETWEEN J.lowest_sal AND J.highest;

FIRST_NAME LAST_NAME SALARY G

ross geller 10000 A
dinesh kumar 12000 A
monica geller 13000 B
racheal green 25000 C
newlin blessy 25000 C
harish umesh 23000 C
yoga eshwari 35000 D
joshwa peter 36000 D
swetha jenifer 70000 E
chandler bing 45000 E

FIRST_NAME LAST_NAME SALARY G

hari prasath 45000 E rolex suriya 50000 E sam victor 40000 E

14 rows selected.

4. Write a SQL query to find all those employees who work in department ID 80 or 40. Return first name, last name, department number and department name.

SQL> SELECT E.first_name , E.last_name , E.department_id , D.department_name FROM empl E JOIN deprt D ON E.department_id = D.department_id AND E.department_id IN (80 , 40) ORDER BY E.last name;

FIRST_NAME LAST_NAME DEPARTMENT_ID DEPARTMENT_NAME

chandler bing 40 humanresource hari prasath 80 contracting sam victor 80 contracting

5. Write a SQL query to find those employees whose first name contains the letter 'z'. Return first name, last name, department_name.

SQL> SELECT E.first_name,E.last_name,D.department_name FROM empl E JOIN deprt D ON E.department_id = D.department_id WHERE E.first_name LIKE '%c%';

FIRST_NAME LAST_NAME DEPARTMENT_NAME

racheal green administration monica geller purchasing chandler bing humanresource

SQL> SELECT E.first_name,E.last_name,D.department_name FROM empl E JOIN deprt D ON E.department_id = D.department_id WHERE E.first_name LIKE '%z%';

no rows selected

6. write a SQL query to find all departments, including those without employees. Return first name, last name, department ID, department name.

SQL> SELECT E.first_name, E.last_name, D.department_id, D.department_name FROM empl E RIGHT OUTER JOIN deprt D ON E.department_id = D.department_id;

FIRST NAME LAST NAME DEPARTMENT ID DEPARTMENT NAME

swetha jenifer	20 marketing
chandler bing	40 humanresource
monica geller	30 purchasing
racheal green	10 admininstration
phoebe buffay	20 marketing
ross geller	70 sales
dinesh kumar	50 payroll
hari prasath	80 contracting
yoga eshwari	70 sales
malan andrea	10

rolex suriya 10 admininstration newlin blessy 30 purchasing

FIRST_NAME LAST_NAME DEPARTMENT_ID DEPARTMENT_NAME

joshwa	peter	60	shipping
sam	victor	80	contracting
harish	umesh	70	sales

14 rows selected.

7. write a SQL query to find the employees who earn less than the employee of ID 182. Return first name, last name and salary.

SQL> SELECT E.first_name, E.last_name, E.salary FROM empl E JOIN empl S ON E.salary < S.salary AND S.emp_id = 111;

FIRST_NAME LAST_NAME SALARY

monica geller 13000
racheal green 25000
ross geller 10000
dinesh kumar 12000
yoga eshwari 35000
newlin blessy 25000
harish umesh 23000

7 rows selected.

8. write a SQL query to find the employees and their managers. These managers do not work under any manager. Return the first name of the employee and manager.

SQL>

SQL> SELECT E.first_name AS "Employee Name" FROM empl E LEFT OUTER JOIN employee M ON E.manager_id = M.emp_id;

SELECT E.first_name AS "Employee Name" FROM empl E LEFT OUTER JOIN employee M ON E.manager_id = M.emp_id

*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> SELECT E.first_name AS "Employee Name" FROM empl E LEFT OUTER JOIN empl M ON E.manager_id = M.emp_id;

Employee N

newlin

monica

phoebe

swetha

dinesh

chandler

rolex

racheal

harish

yoga ross

Employee N

sam

hari

joshwa

14 rows selected.

9. write a SQL query to calculate the difference between the maximum salary of the job and the employee's salary. Return job title, employee name, and salary difference.

SQL> SELECT first_name | | " | | last_name AS employee_name, salary as salary_difference FROM empl;

EMPLOYEE_NAME SALARY_DIF

70000 swethajenifer chandlerbing 45000 13000 monicageller 25000 rachealgreen phoebebuffay 60000 10000 rossgeller dineshkumar 12000 hariprasath 45000 35000 yogaeshwari

rolexsuriya 50000 newlinblessy 25000

EMPLOYEE_NAME SALARY_DIF

joshwapeter 36000 samvictor 40000 harishumesh 23000

14 rows selected.

10. write a SQL query to calculate the average salary, the number of employees receiving commissions in that department. Return department name, average salary and number of employees.

SQL> SELECT department_name, AVG(salary), COUNT(commission_pct) FROM deprt JOIN empl USING (department_id) GROUP BY department_name;

DEPARTMENT_NAME	AVG(SALARY)	COUNT(COMMISSION_PCT)
purchasing	19000	2
admininstration	37500	2
payroll	12000	1
sales	22666.6667	3
marketing	65000	2
humanresource	45000	1
contracting	42500	2
shipping	36000	1

8 rows selected.

SQL>

SQL>