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KELAS: Sistem Informasi A’22

MATKUL: Basis Data Lanjut

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1. SELECT table_name FROM user_tables WHERE SUBSTR(table_name, 1, 2) = 'JO';

TABLE_NAME
JOBS
JOB_GRADES
JOB_HISTORY

3 rows returned in 0.01 seconds Download

2. SELECT SUBSTR(first_name, 0,1) || ' ' || last_name AS "Employee Names" FROM employees;

Employee Names
E Abel
C Davies
L De Haan
B Ernst
P Fay

3. SELECT CONCAT(first_name, CONCAT(' ', last_name)) AS "Employee Name", email FROM employees WHERE email LIKE ('%IN%')

Employee Name	EMAIL
Shelley Higgins	SHIGGINS
Steven King	SKING

2 rows returned in 0.02 seconds Download

4. SELECT MIN(last_name) AS "First Last Name", MAX(last_name) AS "Last Last Name" FROM employees;

First Last Name	Last Last Name
Abel	Zlotkey

1 rows returned in 0.01 seconds Download

5. SELECT TO_CHAR((salary/30)*7, '$99999.99')"Weekly Salary" FROM employees WHERE ((salary/30)*7) BETWEEN 700 AND 30006

Weekly Salary
$5600.00
$3966.67
$3966.67
$1026.67
$2800.00

6. SELECT SUBSTR(e.first_name, 0, 1) || ' ' || e.last_name AS "Employee Name", j.job_title AS "Jobs" FROM employees e, jobs j WHERE e.job_id = j.job_id ORDER BY job_title;

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

7. SELECT SUBSTR(e.first_name, 0, 1) || ' ' || e.last_name AS "Employee Name",j.job_title AS "Jobs", j.min_salary || ' - ' || j.max_salary "Salary Range", e.salary "Employee´s Salary" FROM employees e, jobs j WHERE e.job_id = j.job_id ORDER BY job_title;

Employee Name	Jobs	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

8. SELECT SUBSTR(first_name, 0, 1) || ' ' || last_name AS "Employee Name", department_name AS "Department Name" FROM employees JOIN departments USING (manager_id, department_id) ORDER BY employee_id

Employee Name	Department Name
N Kochhar	Executive
L De Haan	Executive
B Ernst	IT
D Lorentz	IT
T Rajs	Shipping

9. SELECT SUBSTR(first_name, 0, 1) || ' ' || last_name AS "Employee Name", department_name AS "Department Name" FROM employees JOIN departments USING (department_id);

Employee Name	Department Name
E Abel	Sales
C Davies	Shipping
L De Haan	Executive
B Ernst	IT
P Fay	Marketing

10. SELECT DECODE (manager_id, null, 'Nobody' , 'Somebody') "Works for", last_name FROM employees;

Works for	LAST_NAME
Nobody	King
Somebody	Kochhar
Somebody	De Haan
Somebody	Whalen
Somebody	Higgins

11. SELECT SUBSTR(first_name, 1, 1) ||' '|| last_name "Employee Name", salary "Salary", DECODE(commission_pct, NULL, 'No', 'Yes') "Commission" FROM employees;

Employee Name	Salary	Commission
S King	24000	No
N Kochhar	17000	No
L De Haan	17000	No
J Whalen	4400	No
S Higgins	12000	No

12. SELECT last_name, department_name, city, state_province FROM employees RIGHT OUTER JOIN departments USING(department_id) JOIN locations USING (location_id) ORDER BY last_name;

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

13. SELECT first_name, last_name, COALESCE(commission_pct, manager_id, -1) "Which function???" FROM employees;

FIRST_NAME	LAST_NAME	Which function???
Steven	King	-1
Neena	Kochhar	100
Lex	De Haan	100
Jennifer	Whalen	101
Shelley	Higgins	101

14. SELECT DISTINCT e.last_name AS "Last Name", e.salary AS "Salary", jg.grade_level AS "Grade Level" FROM employees e JOIN job_grades jg ON e.salary BETWEEN jg.lowest_sal AND jg.highest_sal WHERE e.department_id > 50 ORDER BY jg.grade_level, e.salary;

Last Name	Salary	Grade Level
Lorentz	4200	B
Ernst	6000	C
Gietz	8300	C
Taylor	8600	C
Hunold	9000	C

15. SELECT last_name, department_name FROM employees FULL OUTER JOIN departments USING(department_id) ORDER BY department_id;

LAST_NAME	DEPARTMENT_NAME
Whalen	Administration
Hartstein	Marketing
Fay	Marketing
Mourgos	Shipping
Rajs	Shipping

16. SELECT LEVEL "Position", last_name, prior last_name "Manager_Name" FROM employees START WITH employee_id = 100 CONNECT BY PRIOR employee_id = manager_id;

Position	LAST_NAME	Manager_Name
1	King	-
2	Kochhar	King
3	Whalen	Kochhar
3	Higgins	Kochhar
4	Gietz	Higgins

17. SELECT min(hire_date) AS "lowest", max(hire_date) AS "highest", count(employee_id) AS "No_Of_Employees" FROM employees;

lowest	highest	No_Of_Employees
17-Jun-1987	29-Jan-2000	20

18. SELECT d.department_name, SUM(e.salary) "Salaries" FROM employees e JOIN departments d using (department_id) HAVING sum(e.salary) BETWEEN 15000 AND 31000 GROUP BY department_id, department_name ORDER BY sum(e.salary);

DEPARTMENT_NAME	Salaries
Shipping	17500
Marketing	19000
IT	19200
Accounting	20300
Sales	30100

19. SELECT d.department_name AS "Department Name",d.manager_id AS "Manager ID",e.last_name AS "Manager Name",AVG(e.salary) AS "Average Salary" FROM departments d JOIN employees e ON d.manager_id = e.employee_id GROUP BY d.department_name, d.manager_id, e.last_name ORDER BY "Average Salary" ASC;

Department Name	Manager ID	Manager Name	Average Salary
Administration	200	Whalen	4400
Shipping	124	Mourgos	5800
IT	103	Hunold	9000
Sales	149	Zlotkey	10500
Accounting	205	Higgins	12000

20. SELECT ROUND(MAX(avg_salary), 0) AS highest_average_salary FROM (SELECT AVG(salary) AS avg_salary FROM employees GROUP BY department_id);

HIGHEST_AVERAGE_SALARY
19333

1 rows returned in 0.00 seconds Download

21. SELECT d.department_name, SUM(e.salary) AS monthly_cost FROM departments d LEFT JOIN employees e ON d.department_id = e.department_id GROUP BY d.department_name ORDER BY monthly_cost ASC;

DEPARTMENT_NAME	MONTHLY_COST
Administration	4400
Shipping	17500
Marketing	19000
IT	19200
Accounting	20300

id_a886_sql_s35 id_a886_sql_s35 en Oracle APEX 22.2.1

22. SELECT COALESCE(d.department_name, 'All Departments') AS department_name, e.job_id AS JOB_TITLE, SUM(e.salary) AS monthly_cost FROM departments d RIGHT JOIN employees e ON d.department_id = e.department_id GROUP BY GROUPING SETS ((d.department_name, e.job_id), ('All Departments', e.job_id)) ORDER BY department_name, job_id;

DEPARTMENT_NAME	JOB_TITLE	MONTHLY_COST
Accounting	AC_ACCOUNT	8300
Accounting	AC_MGR	12000
Administration	AD_ASST	4400
All Departments	AC_ACCOUNT	8300
All Departments	AC_MGR	12000

23. SELECT d.department_name, e.job_id AS job_title, SUM(e.salary) AS monthly_cost FROM departments d JOIN employees e ON d.department_id = e.department_id GROUP BY GROUPING SETS ((d.department_name, e.job_id)) ORDER BY d.department_name, e.job_id;

DEPARTMENT_NAME	JOB_TITLE	MONTHLY_COST
Accounting	AC_ACCOUNT	8300
Accounting	AC_MGR	12000
Administration	AD_ASST	4400
All Departments	AC_ACCOUNT	8300
All Departments	AC_MGR	12000

id_a886_sql_s35 id_a886_sql_s35 en Oracle APEX 22.2.1

24. SELECT d.department_name, e.job_id,SUM(e.salary) AS monthly_salary_cost, CASE WHEN GROUPING(d.department_name) = 1 THEN 'Yes' ELSE 'No' END AS department_id_used, CASE WHEN GROUPING(e.job_id) = 1 THEN 'Yes' ELSE 'No' END AS job_id_used FROM departments d JOIN employees e ON d.department_id = e.department_id GROUP BY GROUPING SETS ((d.department_name, e.job_id),(d.department_name),(e.job_id)) ORDER BY d.department_name, e.job_id;

DEPARTMENT_NAME	JOB_ID	MONTHLY_SALARY_COST	DEPARTMENT_ID_USED	JOB_ID_USED
Accounting	AC_ACCOUNT	8300	No	No
Accounting	AC_MGR	12000	No	No
Accounting	-	20300	No	Yes
Administration	AD_ASST	4400	No	No
Administration	-	4400	No	Yes

25. SELECT d.department_name, e.job_id, l.city, SUM(e.salary) FROM employees e JOIN departments d ON e.department_id = d.department_id JOIN locations l ON d.location_id = l.location_id GROUP BY GROUPING SETS ((d.department_name, e.job_id),(l.city)) ORDER BY d.department_name, e.job_id, l.city;

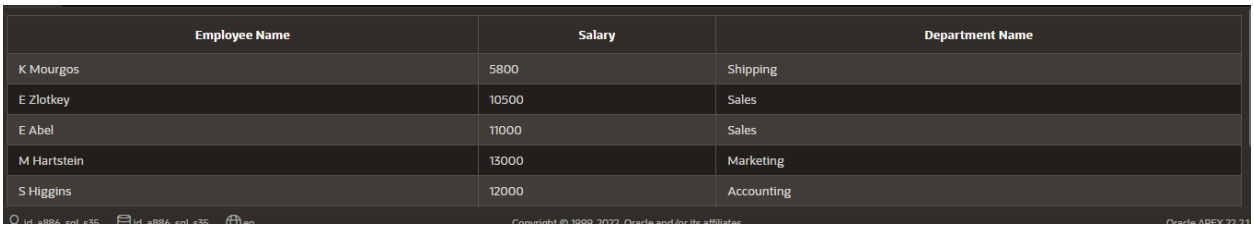
DEPARTMENT_NAME	JOB_ID	CITY	SUM(E.SALARY)
Accounting	AC_ACCOUNT	-	8300
Accounting	AC_MGR	-	12000
Administration	AD_ASST	-	4400
Executive	AD_PRES	-	24000
Executive	AD_VP	-	34000

id_a886_sql_s35 id_a886_sql_s35 en Oracle APEX 22.2.1

26. WITH EmployeeData AS (SELECT SUBSTR(e.first_name, 1, 1) || ' ' || e.last_name AS "Employee Name", e.department_id AS "Department ID", NULL AS "Department Name", NULL AS "City" FROM employees e UNION ALL SELECT NULL AS "Employee Name", d.department_id AS "Department ID", d.department_name AS "Department Name", NULL AS "City" FROM departments d UNION ALL SELECT NULL AS "Employee Name", NULL AS "Department ID", NULL AS "Department Name", l.city AS "City" FROM locations l) SELECT * FROM EmployeeData ORDER BY "Employee Name" ASC;

Employee Name	Department ID	Department Name	City
A Hunold	60	-	-
B Ernst	60	-	-
C Davies	50	-	-
D Lorentz	60	-	-
E Abel	80	-	-

27. SELECT SUBSTR(e.first_name, 1, 1) || ' ' || e.last_name AS "Employee Name", e.salary AS "Salary", d.department_name AS "Department Name" FROM employees e INNER JOIN departments d ON e.department_id = d.department_id WHERE e.salary > (SELECT AVG(salary) FROM employees WHERE department_id = e.department_id);20



Employee Name	Salary	Department Name
K Mourgos	5800	Shipping
E Zlotkey	10500	Sales
E Abel	11000	Sales
M Hartstein	13000	Marketing
S Higgins	12000	Accounting