

KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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DBMS LAB ASSIG 7

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-- Q1. Create the following table and insert the values.
-- Using the above Job_History table and the Employee
-- table (of assignment 2) write SQL statements for the
-- following queries.
CREATE TABLE Job_History
(
emp_id INT(6),
startdate DATE,
End_Date DATE,
Job_Type VARCHAR(20),
D_Name VARCHAR(15)
);
INSERT INTO Job_History Values(1,'1998-01-04','2001-06-30',
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engineer','production');
INSERT INTO Job_History Values(2,'1998-02-09','2002-02-28',
'salesman','sales');
INSERT INTO Job_History Values(1,'2001-07-01','2010-12-31',
'manager','rnd');
INSERT INTO Job_History Values(4,'2001-12-27','2016-09-19',
'sales_executive','marketing');
INSERT INTO Job_History Values(2,'2002-03-01','2015-03-30',
'sales_executive','marketing');
INSERT INTO Job_History Values(2,'2016-04-01','2017-12-16',
'manager','sales');
INSERT INTO Job_History Values(4,'2016-09-20','2017-12-16',
'asst. manager','sales');
INSERT INTO Job_History Values(6,'2000-07-16','2006-11-30',
'clerk','accounts');
INSERT INTO Job_History Values(5,'2002-03-20','2011-08-12',
'engineer','rnd');
INSERT INTO Job_History Values(1,'2011-01-01','2012-01-31',
'engineer','production');
SELECT * FROM Job_History;
CREATE TABLE Employee(
emp_id INT,
f_name VARCHAR(50),
l_name VARCHAR(50),
job_type VARCHAR(50),
salary INT,
commision INT,
dept VARCHAR(50),
manager_id INT,
DOJ DATE);
INSERT INTO Employee (emp_id,f_name,l_name,job_type,salary,dept,DOJ)
VALUES (1,'arun','khan','manager',90000,'production','1998-01-04');
INSERT INTO Employee (emp_id,f_name,l_name,job_type,salary,dept,DOJ)
VALUES (2,'barun','kumar','manager',80000,'marketing','1998-02-09');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,dept,manager_id,DOJ)
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VALUES (3,'chitra','kapoor','engineer',60000,'production',1,'1998-01-08');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,dept,manager_id,DOJ)
VALUES (4,'dhirag','mishra','manager',75000,'sales',2,'2001-12-27');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,dept,manager_id,DOJ)
VALUES (5,'emma','dutt','engineer',55000,'production',1,'2002-03-20');
INSERT INTO Employee (emp_id,f_name,l_name,job_type,salary,dept,DOJ)
VALUES (6,'floki','dutt','accountant',70000,'accounts','2000-07-16');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,dept,manager_id,DOJ)
VALUES (7,'dheeraj','kumar','clerk',40000,'accounts',6,'2016-07-01');
INSERT INTO Employee (emp_id,f_name,l_name,job_type,salary,dept,DOJ)
VALUES (8,'saul','good','engineer',60000,'rnd','2014-09-06');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,dept,manager_id,DOJ)
VALUES (9,'mou','bhat','clerk',30000,'sales',4,'2018-03-08');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,commision,dept,manager_id,DOJ)
VALUES (10,'sunny','deol','salesman',20000,10000,'marketing',2,'2001-03-
31');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,dept,manager_id,DOJ)
VALUES (11,'bobby','deol','engineer',35000,'rnd',8,'2017-10-17');
INSERT INTO Employee
(emp_id,f_name,l_name,job_type,salary,commision,dept,manager_id,DOJ)
VALUES (12,'amir','khan','salesman',15000,5000,'marketing',2,'2013-01-11');
SELECT * FROM Employee;
-- Q2. Display the emp_id along with every job_type
-- they have worked (including their current job_type).
-- (use union/union all)
SELECT EMP_ID, DEPT FROM EMPLOYEE UNION SELECT Emp_id,
Job_Type FROM Job_History;
- Q3. Display the emp_id, d_name, and job_types
 - current and previous (if any) of all employees.(use
  union/union all)
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SELECT EMP_ID, JOB_TYPE, DEPT FROM EMPLOYEE UNION SELECT
Emp_id, Job_Type, D_Name FROM Job_History;
-- Q4. Display the emp_id and the job_type of
-- employees who currently have a job title that they
-- held previously.(use intersect)
SELECT EMP_ID, JOB_TYPE FROM EMPLOYEE INTERSECT SELECT
Emp_id, Job_Type FROM Job_History;
-- Q5. Find the employees who have not changed their
-- job for once.(use minus)
SELECT EMP_ID, JOB_TYPE FROM EMPLOYEE MINUS SELECT Emp_id,
Job_Type FROM Job_History;
-- Q6. Find the employees who earn more than Chitra.
-- (use single-row subquery)
SELECT EMP_ID FROM(SELECT EMP_ID FROM EMPLOYEE WHERE
SALARY>60000);
-- Q7. Find the employees details who have the same
-- job_type as of emp_id 7. (use single-row subquery)
SELECT * FROM (SELECT * FROM EMPLOYEE WHERE JOB_TYPE =
'clerk');
-- Q8.Display the employee names whose job is the same
-- as employee 3 and earn more than employee 7. (use
-- single-row subquery)
SELECT F_NAME FROM (SELECT F_NAME FROM EMPLOYEE WHERE
JOB_TYPE='engineer' AND SALARY>40000);
-- Q9. Display the employees earning less than the
-- average salary. (use single-row subquery)
SELECT F_NAME, SALARY FROM EMPLOYEE WHERE SALARY < (SELECT
AVG(SALARY) FROM EMPLOYEE);
-- Q10. Find the job_type with the lowest average
salary. (use single-row subquery)
SELECT JOB_TYPE FROM (SELECT JOB_TYPE, AVG(SALARY) FROM
EMPLOYEE GROUP BY JOB_TYPE HAVING AVG(SALARY) = (SELECT
MIN(AVG(SALARY)) FROM EMPLOYEE GROUP BY(JOB_TYPE)));
- Q11. Display all the department names whose minimum
- salary is greater than the minimum salary of the Sales
 department.
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SELECT DEPT, MIN(SALARY) FROM EMPLOYEE GROUP BY (DEPT)
HAVING MIN(SALARY) < (SELECT MIN(SALARY) FROM EMPLOYEE GROUP
BY (DEPT) HAVING DEPT='sales');
-- Q12. Select the employee names, department and
-- salary who are the lowest earners of their
-- corresponding department (use multi-row subquery).
SELECT F_NAME, DEPT, SALARY FROM EMPLOYEE WHERE SALARY
IN(SELECT MIN(SALARY) FROM EMPLOYEE GROUP BY (DEPT));
-- Q13. Find the highest earners of each job_type.(use
-- multi-row subquery).
SELECT F_NAME, JOB_TYPE, SALARY FROM EMPLOYEE WHERE SALARY
IN(SELECT MAX(SALARY) FROM EMPLOYEE GROUP BY(JOB_TYPE));
-- Q14. Display the employees who are not engineers and
-- earn less than any engineer.(use multi-row subquery).
SELECT F_NAME, JOB_TYPE, DEPT, SALARY FROM EMPLOYEE WHERE
JOB_TYPE != 'engineer' AND SALARY < ANY(SELECT SALARY FROM
EMPLOYEE WHERE JOB_TYPE = 'engineer');
-- Q15. Display the employees who are not clerks but
-- earn more than all clerks.(use multi-row subquery).
SELECT F_NAME, JOB_TYPE, DEPT, SALARY FROM EMPLOYEE WHERE
JOB_TYPE != 'clerk' AND SALARY > ALL(SELECT SALARY FROM
EMPLOYEE WHERE JOB_TYPE = 'clerk');
-- Q16. Display the top 5 highest earning employees.
SELECT F_NAME, SALARY FROM (SELECT F_NAME, SALARY FROM
EMPLOYEE ORDER BY SALARY DESC) WHERE ROWNUM<=5;
-- Q17. Display the name and department of the top 2
-- highest paid managers.
SELECT F_NAME, L_NAME, DEPT, SALARY FROM (SELECT F_NAME,
__NAME, DEPT, SALARY FROM EMPLOYEE WHERE JOB_TYPE =
'engineer' ORDER BY SALARY DESC) WHERE ROWNUM<=2;</pre>
-- Q18. Update the salary of the employees working as
-- managers to the average salary of all the employees.
UPDATE EMPLOYEE SET SALARY = (SELECT AVG(SALARY) FROM
EMPLOYEE) WHERE JOB_TYPE='manager';
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OUTPUTS:-

















