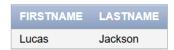
ROLL NO -2439

Questions

1. Get Employees Who Have Worked on the Highest Budget Project

SELECT FIRSTNAME,LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID=(SELECT EMPLOYEEID FROM WORKSON WHERE PROJECTID=(SELECT PROJECTID FROM PROJECTS

WHERE BUDGET = (SELECT MAX(BUDGET) FROM PROJECTS)))



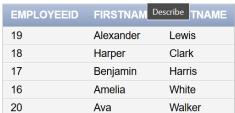
2. Find Clients Who Have at Least One Project

SELECT CLIENTNAME FROM CLIENTS WHERE CLIENTID IN (SELECT DISTINCT CLIENTID FROM PROJECTS)



3. Retrieve Employees Who Are Not Assigned to Any Department

SELECT EMPLOYEEID, FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID NOT IN(SELECT EMPLOYEEID FROM WORKSON)



4. Get Projects Managed by a Specific Client

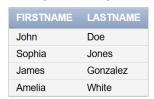
SELECT PROJECTID, PROJECTNAME

FROM PROJECTS

WHERE CLIENTID = (
 SELECT CLIENTID
 FROM CLIENTS
 WHERE CLIENTNAME = 'ABC Corp'
);

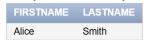
PROJECTID	PROJECTNAME
1	HR Management System
6	Mobile Banking App
11	Cloud Storage Platform

5. Retrieve Employees Working in the Same Department as a Given Employee SELECT FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID IN (SELECT EMPLOYEEID FROM EMPLOYEEDEPARTMENTS WHERE DEPARTMENTID IN (SELECT DEPARTMENTID FROM EMPLOYEEDEPARTMENTS WHERE EMPLOYEEID IN (SELECT EMPLOYEEID FROM EMPLOYEES WHERE FIRSTNAME='John')))



6. Get the Oldest Employee in the Company

SELECT FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE DATEOFBIRTH=(SELECT MIN(DATEOFBIRTH) FROM EMPLOYEES)



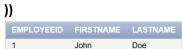
7. Retrieve Departments With No Employees

SELECT DEPARTMENTNAME FROM DEPARTMENTS WHERE DEPARTMENTID NOT IN (SELECT DEPARTMENTID FROM EMPLOYEEDEPARTMENTS)



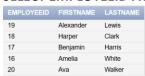
8. Find the Employee with the Most Projects

SELECT EMPLOYEEID, FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID IN(SELECT EMPLOYEEID FROM WORKSON GROUP BY EMPLOYEEID HAVING COUNT(PROJECTID)=(SELECT MAX(COUNT(EMPLOYEEID)) FROM WORKSON GROUP BY(EMPLOYEEID)



9. Find Employees Who Have Never Worked on a Project

SELECT EMPLOYEEID, FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID NOT IN(SELECT EMPLOYEEID FROM WORKSON)



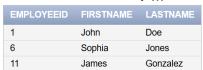
10. Retrieve the Name of the Most Recent Client

SELECT CLIENTNAME, DATEJOINED FROM CLIENTS WHERE DATEJOINED=(SELECT MAX(DATEJOINED) FROM CLIENTS)



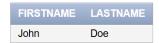
11. Get Employees Who Have Worked on Projects for a Specific Client

SELECT DISTINCT EMPLOYEEID, FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID IN (SELECT EMPLOYEEID FROM WORKSON WHERE PROJECTID IN (SELECT PROJECTID FROM PROJECTS WHERE CLIENTID IN (SELECT CLIENTID FROM CLIENTS WHERE CLIENTNAME='ABC Corp')))



12. Retrieve Employees Who Joined Before the Oldest Project Started

SELECT FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID IN (SELECT EMPLOYEEID FROM EMPLOYEEDEPARTMENTS WHERE STARTDATE < (SELECT STARTDATE FROM EMPLOYEEDEPARTMENTS WHERE EMPLOYEEID IN(SELECT EMPLOYEEID FROM EMPLOYEES WHERE DATEOFBIRTH=(SELECT MIN(DATEOFBIRTH) FROM EMPLOYEES))))



13. Find Departments Where All Employees Have Worked on at Least One Project
SELECT DEPARTMENTNAME FROM DEPARTMENTS WHERE DEPARTMENTID IN(SELECT
DEPARTMENTID FROM EMPLOYEEDEPARTMENTS WHERE EMPLOYEEID IN(SELECT
EMPLOYEEID FROM EMPLOYEES WHERE EMPLOYEEID NOT IN(SELECT UNIQUE EMPLOYEEID
FROM WORKSON)))



- 14. Retrieve Projects That Have More Employees Than the Average
- 15. Get Employees Who Are the Only Ones in Their Department

SELECT FIRSTNAME, LASTNAME FROM EMPLOYEES WHERE EMPLOYEEID IN (SELECT EMPLOYEEID FROM EMPLOYEEDEPARTMENTS WHERE DEPARTMENTID IN (SELECT DEPARTMENTID FROM EMPLOYEEDEPARTMENTS GROUP BY DEPARTMENTID HAVING COUNT(*) = 1));

