

DBMS

ASSIGNMENT-V

Q1.

1. SELECT Suppliers.sname FROM Suppliers, Catalog, Parts WHERE Suppliers.sid = Catalog.sid AND Parts.pid = Catalog.pid AND Parts.color = "red".
2. SELECT Catalog.sid FROM Parts, Catalog WHERE (Parts.pid = Catalog.pid AND Parts.color = "green") UNION (SELECT Catalog.sid FROM Parts, Catalog WHERE (Parts.pid = Catalog.pid AND Parts.color = "red"))
3. SELECT Catalog.sid FROM Parts, Catalog WHERE (Parts.pid = Catalog.pid AND Parts.color = "red") INTERSECT (SELECT Catalog.sid FROM Suppliers, Catalog WHERE (Suppliers.sid AND Suppliers.address = "221 Packer Street"))

Q2.

1. SELECT ~~loan~~ loan.number FROM loan WHERE branch.name = "Ambher".
2. SELECT * FROM Customer WHERE Customer.city = "Mumbai".
3. SELECT account.number FROM Account WHERE balance > 10000 AND balance <= 50000
4. SELECT Customer.name FROM Depositor, Account WHERE Depositor.account.number = Account.account.number AND branch.name = "Vile Parle".

Q3

1. SELECT emp-name FROM Employee, Teacher, Course WHERE Employee.emp-no = Teacher.emp-no AND Teacher.course-no = Course.course-no AND Course.title = "Database Management System".
2. SELECT title FROM Course, Offering WHERE Course.course-no = Offering.course-no AND Offering.off-date = "15/8/17" AND Offering.location = "Thane".
3. SELECT title FROM Course, Enrollment, Student WHERE Student.stud-no = Course.stud-no AND Enrollment.course-no = Course.course-no AND Student.stud-name = "Radha".
4. SELECT emp-name FROM Employee WHERE job = "Teacher".

Q4

1. SELECT driver-name FROM Owns WHERE driver-name = "Jini".
2. SELECT driver-id, driver-name FROM Owns WHERE issuing-date = (SELECT issuing-date FROM Owns WHERE driver-name = "Jini").
3. SELECT COUNT * FROM Accident GROUP BY location
4. SELECT driver-name FROM Owns, Participated WHERE Owns.driver-id = Participated.driver-id AND Participated.amount = 20000

Q5.

1. SELECT * FROM Course WHERE Course Description = "%DATA%"
2. SELECT offer No, Course No, Fac No FROM Offering WHERE (offTerm = "FALL" AND offYear = "2012") OR (offTerm = "WINTER" AND offYear = "2013")
3. SELECT count(*) FROM student GROUP BY std GPA

Q6.

1. UPDATE Employee SET city = "Mumbai" WHERE empname = "John"
2. UPDATE Works SET Salary = salary + 0.1 * salary WHERE company_name = "ABC Corporation"
3. SELECT empname FROM Employee WHERE Employee.empname = Managers.empname AND Employee.city = (SELECT City FROM employee WHERE Employee.empname = Managers.manage_name)
4. SELECT empname FROM Works WHERE salary > (SELECT avg(salary) FROM Works)

Q7.

1. SELECT * FROM Employee, Department, Location WHERE Employee.deptno = Department.deptno AND Department.Dlocation_id = Location.Dlocation_id AND Location.Dlocation_id AND Location.Dlocation_name = "Mumbai"

2. SELECT FROM Employee AS E, Department AS D, Work-on AS W WHERE E.empno = W.empno AND W.project_no = P.project_no AND W.no_of_hours = MAX(W.no_of_hours) AND P.project_title = "PI"

3. SELECT * FROM Project WHERE Project-cost > 10000 OR project_no = 1005 OR project_no = 3456 OR project_no = 2345

4. SELECT * FROM Employee WHERE ename = "H-----" AND Salary > 50000

Q8.

1. SELECT StName, Title FROM STUDENTS, BOOKS WHERE STUDENTS.StId = BOOKS.DocId AND BORROWS.DocId = BOOKS.DocId

2. SELECT TITLE FROM BOOKS WHERE PUBLISHER = "McGraw-Hill" AND YEAR < 1990

3. SELECT STNAME FROM STUDENTS WHERE AGE > 30 AND MAJOR = MAJOR-(SELECT MAJOR FROM STUDENTS WHERE MAJOR = "CS")

4. SELECT B.TITLE FROM BOOKS B WHERE B.DocId = HAS-WRITTEN H.DocId AND H.A-NAME = AUTHORS.A-NAME AND AUTHORS.A-NAME = "ULLMAN"

5. SELECT (*) FROM BOOKS GROUP BY PUBLISHER

6. SELECT A.NAME FROM HAS-WRITTEN WHERE HAS-WRITTEN.
DOCID=BORROW.DOCID AND BORROW.SID=STUDENTS.SID
AND STUDENTS.ST NAME='SMITH'

7. SELECT TITLE FROM BOOKS B, DESCRIPTION D WHERE
B.DOC-ID=DESCRIPTION.DOCID AND D.KEYWORD="DATABASE"
AND D.KEYWORD="PROGRAMMING"

Q9. Views in SQL are virtual tables, it has rows & columns as they are in real table in DATABASE. It can be created by selecting one or more ~~rows~~ tables in the database. A view can either have all the rows of a table or specific rows based on the condition.

STUDENT-DETAILS

SID	NAME	ADDRESS
1	VK	SF
2	SK	CN
3	KP	UK
4	KL	US
5	AH	SA

CREATE VIEW DETAIL-VIEW AS

SELECT NAME, ADDRESS FROM STUDENT-DETAILS WHERE SID < 5

SELECT * FROM DETAIL-VIEW

NAME	ADDRESS
VK	SF
SK	CN
KP	UK