**MCA-B013 CHUDASAMA VISHAL**

SQL> -- **day-7.docx** file exercise

SQL> **-- Question-1 tables: STUDENT, Course and Enroll**

SQL> **-- 1. Display the name of students who have enrolled for course ‘C101’.**

SQL> **select fname,lname from student where rollno in(select rollno from enroll where courseno='C101');**

FNAME LNAME

------------ ------------

Kapil Sharma

Anjali Verma

SQL> **-- 2. Display the name of the courses in which rollno 11 is enrolled.**

SQL> **select coursename from course where c\_no in(select courseno from enroll where rollno=11);**

COURSENAME

--------------------

Mathematics

Physics

SQL> **-- 3. Display the name of the student who have earned maximum credit.**

SQL> **select fname, lname from student where rollno in(select rollno from enroll where earn\_credit=(select max(earn\_credit) from enroll));**

FNAME LNAME

------------ ------------

Kapil Sharma

Anjali Verma

Ravi Kumar

SQL> **-- 4. Display details of students who have enrolled in any course.**

SQL> **select \* from student where rollno in(select rollno from enroll);**

ROLLNO FNAME LNAME DOB

---------- ------------ ------------ ---------

11 Kapil Sharma 01-JAN-03

12 Anjali Verma 21-JUN-02

13 Ravi Kumar 12-MAR-04

SQL> **-- 5. Display details of students who have not enrolled in any course.**

SQL> **select \* from student where rollno not in(select rollno from enroll);**

ROLLNO FNAME LNAME DOB

---------- ------------ ------------ ---------

14 Pooja Singh 23-NOV-01

SQL> **-- 6. Display details of students who have enrolled in all courses.**

SQL> **select \* from student where rollno in(select rollno from enroll group by rollno having count(distinct courseno)=(select count(\*) from course));**

ROLLNO FNAME LNAME DOB

---------- ------------ ------------ ---------

11 Kapil Sharma 01-JAN-03

SQL> **-- 7. Give the name of the course in which maximum number of students are enrolled.**

SQL> **select coursename from course where c\_no=(select courseno from enroll group by courseno having count(distinct rollno)=(select max(count(distinct rollno)) from enroll group by courseno));**

COURSENAME

--------------------

Chemistry

SQL> **-- 8. Give the name of the course in which no student has enrolled**

SQL> **select coursename from course where c\_no not in(select distinct courseno from enroll);**

COURSENAME

--------------------

RDBMS

SQL> **-- 9. Find all students whose credit earned is higher than the average credit of the students in their course.(using corelate sub query)**

SQL> **select e.\* from enroll e where e.earn\_credit > (select avg(e2.earn\_credit) from enroll e2 where e2.courseno=e.courseno);**

ROLLNO COURSENO EARN\_CREDIT

---------- ---------- -----------

12 C103 4

13 C103 4

SQL> **-- 10. List the student detail whose total credit is same as that of `Kapil'**

SQL> **select fname from student where rollno in(select rollno from enroll group by rollno having sum(earn\_credit) = (select sum(earn\_credit) from enroll where rollno=(select rollno from student where fname='Kapil')));**

FNAME

------------

Kapil

Anjali

SQL>

SQL> **-- Question-2 tables: Employee, Company and Customer**

SQL> **-- 1. Find all students whose salary is higher than the average salary of the employees in their departments.**

SQL> **select fname from employee where emp\_no in(select emp\_no from company c1 where salary > (select avg(salary) from company c2 where c1.department=c2.department));**

FNAME

------------

Jay

Nina

SQL>

SQL> **-- 2. List the employee detail whose salary is same as "Jay".**

SQL> **select \* from employee where EMP\_NO in(select EMP\_NO from company where SALARY = (select salary from company where EMP\_NO = (select EMP\_NO from employee where FNAME='Jay')));**

EMP\_NO FNAME LNAME DOB ADDRESS

---------- ------------ ------------ --------- ------------------------------

105 Meena Sharma 14-MAR-93 Pune

101 Jay Shah 01-JAN-90 Mumbai

SQL> **-- 3. Display the name of employees who work in `mrkt' department.**

SQL> **select fname from employee where emp\_no in(select emp\_no from company where DEPARTMENT='mrkt');**

FNAME

------------

Jay

Amit

SQL> **-- 4. Display details of employees not belong to any department.**

SQL> **select \* from employee where emp\_no not in(select emp\_no from company);**

EMP\_NO FNAME LNAME DOB ADDRESS

---------- ------------ ------------ --------- ------------------------------

106 Rahul Makvana 24-SEP-95 Gujarat

SQL> **-- 5. Find out all the customers having same name as the employees. (Using multi column subquery).**

SQL> **select fname, lname from customer where (fname,lname) in(select fname, lname from employee);**

FNAME LNAME

------------ ------------

Jay Shah

Amit Patel

Ravi Kumar