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| **Sl. No.** | **Part A**  (Minimum 80% of programs are mandatory) |
| **1** | DEPARTMENT (dept\_no, dept\_name, location)   1. Create the Simple DEPARTMENT Table. 2. Display structure of department table. 3. Insert below records into Department Table      1. Display all records of Department table 2. Display all department belonging to location 'NY' 3. Display details of Department 10 4. List all department names starting with 'A' 5. List all departments whose number is between 1 and 100 6. Delete 'TRG' department 7. Change department name 'EDP' to 'IT |

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| **2** | EMPLOYEE (emp\_id, emp\_name, birth\_date, gender, dept\_no, address, designation, salary,experience, email).  DEPARTMENT (dept\_no, dept\_name, location).  Create the EMP Table with all necessary constraints such as:  In EMP TABLE: Employee id should be primary key, Department no should be Foreign key, employee age (birth\_date) should be greater than 18 years, salary shouldbe greater than zero, email should have (@ and dot) sign in address, designation of employee can be “manager”, “clerk”, “leader”, “analyst”, “designer”, “coder”,“tester”.   * Create DEPT table with necessary constraint such as   Department no should be primary key, department name should be unique.  After creation of above tables, modify Employee table by adding the constraints as  ‘Male’ or ‘Female’ in gender field and display the structure.  Insert proper data (at least 5 appropriate records) in all the tables.   1. Describe the structure of table created 2. List all records of each table in ascending order. 3. Delete the department whose loction is Ahmedabad. 4. Display female employee list 5. Display Departname wise employee Names 6. Find the names of the employee who has salary less than 5000 and greater than 2000. 7. Display the names and the designation of all female employee in descending order. 8. Display the names of all the employees who names starts with ‘A’ ends with ‘A’. 9. Add 10% raise in salary of all employees whose department is ‘IT’. |

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| **3** | **STUDENT (rollno, name, class, birthdate)**  **COURSE** (courseno, coursename, max\_marks, pass\_marks)  **SC** (rollno, courseno, marks)   1. Create the above three tables along with key constraints. 2. Write an Insert script for insertion of rows with substitution variables and insert appropriate data. 3. Add a constraint that the marks entered should strictly be between 0 and 100. 4. While creating SC table, composite key constraint was forgotten. Add the compositekeynow. 5. Display details of student who takes ‘Database Management System’ course. 6. Display the names of students who have scored more than 70% in ComputerNetworks and have not failed in any subject. 7. Display the average marks obtained by each student. 8. Select all courses where passing marks are more than 30% of average maximum mark. |

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| **4** | Create the database COMPANY and create given tables with all necessary constraints such as primary key, foreign key, unique key, not null and check constraints.  EMPLOYEE (emp\_id, emp\_name, birth\_date, gender,  dept\_no, address, designation, salary, experience, email)  DEPART (dept\_no, dept\_name, total\_employees, location)  PROJECT (proj\_id, type\_of\_project, status, start\_date, emp\_id)  Insert proper data (at least 5 appropriate records) in all the tables.   1. Delete the department whose total number of employees less than 1. 2. Display the names and the designation of all female employee in descending order. 3. Display the names of all the employees who names starts with ‘A’ ends with ‘A’. 4. Find the name of employee and salary for those who had obtain minimum salary. 5. Add 10% raise in salary of all employees whose department is ‘CIVIL’. 6. Count total number of employees of ‘MCA’ department. 7. List all employees who born in the current month. 8. Print the record of employee and dept table as “Employee works in department ‘CE’. 9. List names of employees who are fresher’s(less than 1 year of   experience).   1. List department wise names of employees who has more than 5 years of experience. |

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| **5** | Create the database STUD and create given tables with all necessary constraints such as primary key, foreign key, unique key, not null and check constraints.  HOSTEL (HNO, HNAME, HADDR, TOTAL\_CAPACITY, WARDEN)  ROOM (HNO, RNO, RTYPE, LOCATION, NO\_OF\_STUDENTS,  STATUS)CHARGES (HNO, RTYPE, CHARGES)  STUDENT (SID, SNAME, MOBILE-NO, GENDER, FACULTY, DEPT, CLASS,HNO, RNO)  FEES (SID, FDATE, FAMOUNT)  The STATUS field tells us whether the room is occupied or vacant. The charges represent the term fees to be paid half yearly. A student can pay either the annual fees at one time or the half yearly fees twice a year.  Insert proper data (at least 5 appropriate records) in all the tables.   1. Display the total number of rooms that are presently vacant. 2. Display number of students of each faculty and department wise staying in eachhostel. 3. Display hostels, which have at least one single-seated room. 4. Display the warden name and hostel address of students of Computer Science department. 5. Display those hostel details where single seated or double-seated rooms are vacant. 6. Display details of hostels occupied by medical students. 7. Display hostels, which are totally occupied to its fullest capacity. 8. List details about students who are staying in the double- seated rooms of Chanakya Hostel. 9. Display the total number of students staying in each room type of each hostel. 10. Display details about students who have paid fees in the month of Nov. 2017. |

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| **Sl. No** | **Part B**  (Minimum 80% of programs are mandatory) |
| **1** | Write a PL/SQL to update the rate field by 20% more than the current rate in inventory table which has the following fields: Prono, ProName and Rate. After updating the table a new field (Alter) called for Number of item and place for values for the new field without  using PL/SQL block. |
| **2** | Write a PL/SQL to split the student table into two tables based on result (One table for ―Pass‖ and another for ―Fail‖). Use cursor for  handling records of student table. Assume necessary fields and create a student details table. |
| **3** | Create a database trigger to implement on master and transaction tables which are based on inventory management system for checking data validity. Assume the necessary fields for both tables.  Inventory\_Master (product\_id, product\_name ,stock\_quantity ,price\_per\_unit ) Inventory\_Transaction (transaction\_id, product\_id ,transaction\_type ,transaction\_date) |

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