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|  | Theory Assignments |  |  |  |
| 1 | File Storage & Query Processing | 8 | 01/07/2020 |  |
| 2 | Transaction & Security | 62 | 01/07/2020 |  |
|  | Practical Assignment 1 | 77 | 01/07/2020 |  |
| 1 | Creare a procedure for emp which will fetch all employees details and display on screen. |  |  |  |
| 2 | Create a cursor to find list of all employees jn a deoartment passed as an argument from the employee table. |  |  |  |
| 3 | Create a cursor to increment the salary based on the designation. |  |  |  |
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|  | Practical Assignment 2 | 87 | 01/07/2020 |  |
| 1 | GENERAL PL/SQL BLOCKS |  |  |  |
|  | * Input two numbers and find out all arthmetic operations( +, -, x, / ). * Enter rollno and three subject marks. Find out Total, percentage, result & Grade. * Print First 10 Odd Number unsing Loops. * Print Prime Number Upto 10 using While Loops. * Print MAX & MIN number from 3 numbers. * Get Input From user as empid and check whether that empid is exist, if Not then Show appropriate Message else show empname and salary * Get Input From user as empid and check whether that empid is exist, if Not then Show appropriate Message else show empname and salary. |  |  |  |
| 2 | FUNCTIONS |  |  |  |
|  | * Input name and count the length of the name. * WAF which accepts one number and return TRUE if no is prime and return FALSE if No. is not prime. * Write a function which accepts the department no and returns maximum salary of that Department. Handle the error if deptno does not exist or select statement return more than one row. * Write a function to display whether the entered (User Input) employee no exists or not. * WAF which accepts one no and returns that no+100. Use INOUT mode. * WAF which accepts the empno. If salary=10000 than give raise by 20%. If salary>20000 than give raise by 10%. Handle the error if any. * WAF which accepts the empno and returns the experience in years. Handle the error if empno does not exist. EMP(Empno, Empname, DOJ); |  |  |  |
| 3 | CURSORS |  |  |  |
|  | * Create a cursor for the emp table. Produce the output in following format: {empname} employee working in department {deptno} earns Rs. {salary}. EMP(empno, empname, salary, deptno); * Create a cursor for updating the salary of emp working in deptno 10 by 20%. If any rows are affected than display the no of rows affected. Use implicit cursor. * Create a cursor for updating the salary of emp working in deptno 10 by 20%. If any rows are affected than display the no of rows affected. Use EXPLICIT cursor. * WAP that will display the name, department and salary of the first 10 employees getting the highest salary. * WAP using parameterized cursor to display all the information of employee living in specified city. Ask the city from user. * WAP which display the sum of salary department wise. * Create a cursor to generate defferent two tables from one master table. Students(Rno, Name, Std, B\_date, Sex); Girl\_Table(Rno, Name, Std, B\_date); Boy\_Table(Rno, Name, Std, B\_date); First fetch the row from Student table. If sex is ‘M’ then insert that row in Boy\_Table and if ‘F’ then insert that row in Girl\_Table. In both table Rollno entry must be in Sequence(Using create sequence command). |  |  |  |
| 4 | PROCEDURES |  |  |  |
|  | * : Write a procedure which accepts the empno and returns the associated empname. If empno does not exist than give proper error message. EMP(Empno, Empname). * WAP which accepts the student rollno and returns the name,city and marks of all the subjects of that student. STUDENT (Stud\_ID, Stud\_name, m1, m2, m3). * : WAP which accepts the name from the user. Return UPPER if name is in uppercase, LOWER if name is in lowercase, MIXCASE if name is entered using both the case. * WAP which accepts the student rollno and returns the highest percent and name of that student to the calling block. STUDENT(Stud\_ID,Stud\_name,percent); * WAP which accepts the date of joining for specific employee and returns the years of experience along with its name. Accept the Employee no from user. EMP (empno, empname, DOJ); * WAP which accepts the student roll no and returns the result (in the form of class: first class, second class, third class or fail). STUDENT (Stud\_ID, Stud\_name,m1, m2, m3). |  |  |  |
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|  | Practical Assignment 3 | 145 | 01/07/2020 |  |
| 1 | TRIGGERS (BOOK EXERCISE) |  |  |  |
|  | * This example is divided in three categories : Insert, Update and Delete   Insert : Write a trigger which updates the sale value if customer already exists else create new entry of customer.  Update : If the customer is updating, WAT to update the sales value by incrementing the Sale\_vale field  Delete : If the customer is deleting , WAT to update the sales value by decrementing the Sale\_vale field   * Wirte a program to create trigger signal to restrict entering negative value in balance. * Write a trigger to perform data validation using select statement. * Write a example to create a sales table whichprovides free shipping on orders above 500 |  |  |  |
| 2 | TRANSACTION |  |  |  |
|  | * Create a procedure to commence a transaction using auto commit. * Create a procedure to commence a transaction using start transaction. * Create a procedure which displays use of Savepoint with a transaction. |  |  |  |
| 3 | TRIGGERS (DO IT YOURSELF) |  |  |  |
|  | * Write a Trigger that stores the old data table of student table in student\_backup while updating   the student table. Student\_backup (Stud\_ID, Stud\_name, Address, Contact\_no, Branch, Operation\_date) Student (Stud\_ID, Stud\_name, Address, Contact\_no, Branch).   * Write a trigger, that ensures the empno of emp table is in a format ‘E00001’ (empno must start with ‘E’ and must be 6 characters long). If not, than complete empno with this format before inserting into the employee table. * Write a trigger which checks the age of employee while inserting the record in emp table. If it is negative than generate the error and display proper message. * Write a trigger which converts the employee name in upper case if it is inserted in any other case. Change should be done before the insertion only. * WAT that stores the data of emp table in emp\_backup table for every delete operation and store the old data for every update operation. EMP(Empno, Empname, salary); Emp\_Backup(Empno,Empname,Date\_of\_operation,Type\_of\_operation (i.e.update or delete)); * WAT which display the message ‘Updating’,’Deleting’ or ’Inserting’ when Update, Delete or Insert operation is performed on the emp table respectively. * WAT which generate an error if any user try to delete from product\_master table on weekends (i.e. Saturday and Sunday). * We have two tables student\_mast and stu\_log. student\_mast have three columns STUDENT\_ID, NAME, ST\_CLASS. stu\_log table has two columns user\_id and description. WAT which inserts the student details in stu\_log table as soon as we promote the students in student master table( e.g. when a student is promoted from sem 2 to 3, auto entry in log table) * WAT to calculate the Income Tax amount and insert it in emp table. EMP(emp\_no,emp\_name,emp\_income, income\_tax);  If emp\_income <100000 and >=50000 then incometax = 10% If emp\_income <200000 and >=100000 then incometax = 15% If emp\_income <300000 and >=200000 then incometax = 20% |  |  |  |
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