R O L L N O : 10
N A M E   : Pradip S Karmakar
S U B J E C T : Relational Database Management System

NO.	TITLE	PAGE NO.	DATE	SIGN
	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.**			
	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);**

R O L L N O : 10
N A M E   : Pradip S Karmakar
S U B J E C T : Relational Database Management System

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**			

DEPARTMENT OF COMPUTER SCIENCE
ROLLWALA COMPUTER CENTRE
GUJARAT UNIVERSITY
M.C.A. – II

ROLLNO : 10
NAME : Pradip S Karmakar
SUBJECT : Relational Database Management System

	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).			
	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			

DEPARTMENT OF COMPUTER SCIENCE
ROLLWALA COMPUTER CENTRE
GUJARAT UNIVERSITY
M.C.A. – II
ROLL NO : 10
NAME : Pradip S Karmakar
SUBJECT : Relational Database Management System

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**

DEPARTMENT OF COMPUTER SCIENCE
ROLLWALA COMPUTER CENTRE
GUJARAT UNIVERSITY
M.C.A. – II

R O L L NO   : 10
N A M E   : Pradip S Karmakar
S U B J E C T : Relational Database Management System

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%**