COMMIT;
DBMS.OUTPUT.PUT.LINE(Discount Applied: 1/1 discount -percent II'-/.');
END;

TASK 7: Triggers, Views, and Euceptions Objective: To understand and implement Triggers, views and Exception - 118 Handiling for performing and managing CRUD Operations in an ovade database. Part 1: - Implementing Triggers. 1. Prevent Insertion of orderage Students. CREATE TABLE Students (Student ID NUMBER PRIMARY KEY) Name VARCHAR (50), Age Number, Department VARCHAR (20), MARKS Number). CREATE OR REPLACE TRIGGER Prevent_underage_ students BEFORE INSERT ON Studenty FOR EACH ROW IF : NEW . Age & 18 THEN RAISE_Application_ERROR (-2000), 'Age most be 18 or above); ENDIF; END; 2. CREATE a Log Table: CREATE TABLE Studentlog (LOGID NOMBER PRIMARY KEY, Student ID NOMBER, ActionType VARCHARI(20), ActionDate TIMESTAMP DEFAULT SYSYTIMESTAMP): PART 2:- Creating views 1. View for Top Students CREATE OR REPLACE VIEW View Top8tudent & 45 SELECT Student_ID, Name, Marks FROM Students

WHERE MARKS > 80; 2. View for Department Sommary: CREATE OR REPLACE VIEW view-Department Summary As SELECT Department, COUNT(*) As Total Students, ROUND (AUG (Marks), 2) As AverageMarks FROM Students GROUP BY Department; PART-3: - Exception Handling 4. Stoved Procedure with Exceptions Handling for Inser. -ting Student Records. CREATE OR REPLACE PROCEDORE INSERT Studenty (P. Studenty -n+ID IN Number, P_Name IN VARCHARE, P_Age IN Number, P- Department IN VARCHAR 21 P-MARKS IN Number) BEGIN INSERT INTO students (student ID, Name, Age, Defart--ment, MARKE) VALUER (P. student ID, P. Name, P. Age, P. Department, P-MARKE): DEMA _ OUTPUT . POT Line (Record Enserted successfully), Exception WHEN OTHERS THEN DEMS, OUT POT - PUT - LINE (Errov: " [| SOLE PRA) END :

2. FUNCTIONS to Fetch Student Details with Error Handiling :-CREATE OR REPLACE FONCTION Get Student Detail & (P. Stude-- ntid IN NUMBER) RETURN VARCHARE 3 Student_ "info VARCHAR2 (225); BEGIN SELECT 'Name! | Name! ! , Age : ' | | ', Department : ', | Department -ment 1 1, Mark 9: 11 Marks INTO Student_ info FROM Students WHERE Student ID = P_Student_ID. RETURN Student_info; Euception WHEN NO-DATE FOUND THEN RETURN Student NOT Found : WHEN OTHERS THEN RECORN 'Error: '11 SOLERAM; END: Resoll: Herce, Implementing Triggers, views and Exceptions has been done successfully