# Assignment No : 6

SET A

Q1: 1) Define a trigger after insert or update the record of driver if the age is between 18 and 50 give the message “valid entry” otherwise give appropriate message.

CREATE TRIGGER CheckDriverAge

AFTER INSERT OR UPDATE ON DRIVER

FOR EACH ROW BEGIN

-- Check if the driver's age is within the valid range

IF :NEW.d\_age >= 18 AND :NEW.d\_age <= 50 THEN

DBMS\_OUTPUT.PUT\_LINE('Valid entry');

ELSE

DBMS\_OUTPUT.PUT\_LINE('Invalid age. Driver age must be between 18 and 50.');

END IF;

END;

Q2: Define a trigger after delete the record of bus having capacity < 10. Display the message accordingly.

CREATE TRIGGER CheckBusCapacityBeforeDelete

AFTER DELETE ON BUS

FOR EACH ROW

BEGIN

-- Check if the bus capacity was less than 10

IF :OLD.capacity < 10 THEN

DBMS\_OUTPUT.PUT\_LINE('Bus with capacity less than 10 has been deleted.');

END IF;

END;

Q3: Write a trigger which will fire before insert or update on Bill having total less than or equal to zero. (Raise user defined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckBillTotalBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Bill

FOR EACH ROW

BEGIN

-- Check if the total is less than or equal to zero

IF :NEW.total <= 0 THEN

-- Raise a user-defined exception with a custom message RAISE\_APPLICATION\_ERROR(-20001, 'Total amount cannot be less than or equal to zero.');

END IF;

END;

Q4: Write a trigger which will fire before insert or update on Menu having price less than or equal to zero. (Raise user defined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckMenuPriceBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Menu

FOR EACH ROW

BEGIN

-- Check if the price is less than or equal to zero

IF :NEW.price <= 0 THEN

-- Raise a user-defined exception with a custom message RAISE\_APPLICATION\_ERROR(-20001, 'Price should be greater than zero.');

END IF;

END;

SET B:

1. Write a trigger which will fire before insert or update on Member having ID less than 0.(Raise user defined exception and give appropriate message) .

CREATE OR REPLACE TRIGGER CheckMemberIDBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Member

FOR EACH ROW

BEGIN

-- Check if the Member ID is less than 0

IF :NEW.ID < 0 THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20001, 'Member ID must be greater than or equal to 0.');

END IF;

END;

Q2): Write a trigger which will fire before insert or update on Gym having charges less than 1000. (Raise user defined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckGymChargesBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Gym

FOR EACH ROW

BEGIN

-- Check if the Gym charges are less than 1000

IF :NEW.charges < 1000 THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20002, 'Charges must be greater than or equal to 1000.');

END IF;

END;

Q3. ) Write a trigger which will fire before insert or update on Wholesaler having wno less than or equal to zero (Raise user defined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckWholesalerWnoBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Wholesaler

FOR EACH ROW

BEGIN

-- Check if the wholesaler number (wno) is less than or equal to zero

IF :NEW.wno <= 0 THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20001, 'Wholesaler number (wno) must be greater than zero.');

END IF;

END;

Q4: Write a trigger which will fire before insert or update on product having rate less than or equal to zero (Raise user defined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckProductRateBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Product

FOR EACH ROW

BEGIN

-- Check if the product rate is less than or equal to zero

IF :NEW.rate <= 0 THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20002, 'Product rate must be greater than zero.');

END IF;

END;

SET C:

1. Write a trigger which will fire before insert or update on Driver. If driver\_id is less than or equal to zero. (Raise user defined exception and give appropriate message) 38.

CREATE OR REPLACE TRIGGER CheckDriverIDBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Driver

FOR EACH ROW

BEGIN

-- Check if the driver\_id is less than or equal to zero

IF :NEW.driver\_id <= 0 THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20001, 'Driver ID must be greater than zero.');

END IF;

END;

1. Write a trigger which will fire before insert or update on year. If year value is more than current year. (Raise user defined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckCarYearBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Car

FOR EACH ROW

BEGIN

-- Check if the car year is more than the current year

IF :NEW.year > EXTRACT(YEAR FROM SYSDATE) THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20002, 'Car year cannot be more than the current year.');

END IF;

END;

1. Write a trigger before insert or update on Player having pid less than or equal to zero. (Raise user defined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckPlayerIDBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Player

FOR EACH ROW

BEGIN

-- Check if the player ID (pid) is less than or equal to zero

IF :NEW.pid <= 0 THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20001, 'Player ID (pid) must be greater than zero.');

END IF;

END;

1. Write a trigger which will fire before insert or update on Game having no of players less than or equal to zero. (Raise userdefined exception and give appropriate message).

CREATE OR REPLACE TRIGGER CheckNoOfPlayersBeforeInsertOrUpdate

BEFORE INSERT OR UPDATE ON Game

FOR EACH ROW

BEGIN

-- Check if the number of players is less than or equal to zero

IF :NEW.no\_of\_players <= 0 THEN

-- Raise a user-defined exception with a custom message

RAISE\_APPLICATION\_ERROR(-20002, 'Number of players must be greater than zero.');

END IF;

END;