2. Employee Table

a) Add a salary column.

```
(D) Copy code
  20
  ALTER TABLE employee ADD salary MANRER;

 b) Copy the employee table.

                                                                                        (apy code
  ugi
  CREATE TABLE Emp AS SELECT * FROM employee;
c) Delete the 2nd row.
  ari.
                                                                                       (apy code
  DELETE FROM employee WHERE ROMAIN = 2;
d) Drop the employee table.
                                                                                        (D) Copy code
  HQ.
  DROP TABLE employee;

 e) Trigger to update salary.

                                                                                       (a) Capy code
  113
  CREATE OR REPLACE TRIGGER Update Selary
```

```
AFTER INSERT ON employee
FOR EACH ROW
Direction in
    UPDATE employee SET salary = :HEM.salary * 1.1 WHERE 5_Mo = :HEM.5_No;
END.
```

6. Bank Table

a) Display customers from branch 200000.

```
SELECT Cust_Name, Account_No
FROM Bank
WHERE Branch = 'XXXXX';
```

b) Display names and account types with balance > 10,000.

```
SELECT Cust_Name, Account_Type
FROM Bank
WHERE Balance > 10000;
```

c) Add CONTACTNO column.

```
ALTER TABLE Bank ADD (CONTACTNO VARCHAR2(15));
```

d) Display account details with balance < 1,000.

```
SELECT Account_No, Cust_Name, Branch
FROM Bank
WHERE Balance < 1888;
```

e) Trigger for balance < 1,000.

```
CREATE OR REPLACE TRIGGER Check_Balance

BEFORE UPDATE ON Bank

FOR EACH ROW

BEGIN

IF :NEW.Belance < 1000 THEN

DBMS_OUTPUT.PUT_LINE('Balance below 1000 for Account No ' | :NEW.Account_No);

END IF;

END;
```

5. Event and Prizes

a) Primary and foreign keys.

```
ALTER TABLE Prizes ADD CONSTRAINT PK_Prizes PRIMARY KEY (prizeid);
ALTER TABLE Minners ADD CONSTRAINT FK_Winners_Prizes FOREIGN KEY (prizeid) REFERENCES Priz
ALTER TABLE Minners ADD CONSTRAINT FK_Winners_Participant FOREIGN KEY (playerid) REFERENCE
```

b) Player ID with at least one digit.

```
ALTER TABLE Participant ADD CONSTRAINT CHK_PlayerID CHECK (REGEXP_LIKE(playerid, '.'\d+."
```

c) Events with only female prize winners.

```
SELECT DISTINCT e.name
FROM Event e
MHERE NOT EXISTS (
SELECT 1 FROM Participant p
JOIN Minners w ON p.playerid = w.playerid
WHERE w.eventid = e.eventid AND p.gender != 'F'
);
```

d) View of movies with actors and directors.

```
CREATE VIEW Movies_Actors_Directors AS

SELECT m.Title, a.Name AS Actor, d.Name AS Director

FROM MOVIES m

JOIN ACTORS a ON m.Actor_id = a.Actor_id

JOIN DIRECTORS d ON m.Director_id = d.Director_id;
```

```
4. Departments and Employees
 a) Grant privileges.
                                                                                   (5) Copy code
 100
   GRANT SELECT, INSERT ON Employee TO Department;
b) Revoke all privileges.
                                                                                   Copy code
  27.7
  REVOKE ALL ON Employee FROM Department;

 c) Revoke some privileges.

                                                                                    (D) Copy code
  144
  REVOKE SELECT, INSERT ON Employee FROM Department;

 d) Save point.

                                                                                     (C) Copy code
- 113
  SAVEPOINT my_savepoint;
e) Procedure example.
                                                                                     (Copy code
 CREATE OR REPLACE PROCEDURE Show Employee Details AS
  BEGIN
      FOR rec IN (SELECT * FROM Employee) LOOP
          DOWS_OUTPUT.PUT_LINE('Name: ' || rec.Name);
      END LOOP;
 END
```

9. Account Table

a) Display customers and account numbers from branch 200000.

```
SIGH
                                                                                       (7) Copy code
SELECT Cust Name, Account No
FROM Account
WHERE Branch Name = "XXXXXX";
```

b) Display names and account types with balance > 10,000.

```
(7) Copy code
sai
SELECT Cust Name, Account Type
FROM Account
WHERE Balance > 10000;
```

c) Add Cust Date of Birth column.

sol

```
(apy code
ALTER TABLE Account ADD (Cust Date of Birth DATE);
```

d) Display account details with balance < 1,000.

```
(7) Copy code
sep!
SELECT Account No, Cust Name, Branch Mame
FROM Account
WHERE Balance < 1000;
```

e) Procedure to show account details.

```
(7) Copy code
100
CREATE ON REPLACE PROCEDURE Show_Account_Details AS
BEGIN
   FOR rec IN (SELECT * FROM Account) LOOP
        DBMS_OUTPUT.PUT_LINE('Account No: ' | rec.Account_No | ', Name: ' | rec.Cust_Na
    END LOOP:
END:
```

8. College Database

a) Number of male and female students per semester.

```
SELECT Semester, Gender, COUNT(*)
FROM STUDENT
GROUP BY Semester, Gender;
b) Update Finalmark (average of best two test marks).
```

(7) Copy code

sgl

```
UPDATE MARKS

SET Finalmark = (GREATEST(Test1, Test2, Test3) + LEAST(GREATEST(Test1, Test2), GREATEST(Te

() Categorize students based on Finalmark

sql

UPDATE MARKS
```

WHEN Finalwark >= 81 THEN 'Outstanding'
WHEN Finalwark >= 51 THEN 'Average'

SET Category = CASE

ELSE Weak

END:

```
d) View of Test3 marks for a particular student.

sql

CREATE VIEW Test3_Marks_View AS

SELECT RegNo, Subject, Test3

FROM MARKS

MHERE RegNo = 'specific_regno'; --- Replace with actual student ID
```

```
e) Procedure to show student details.

[State OR REPLACE PROCEDURE Show_Student_Details AS REGIN

FOR rec IN (SELECT * FROM STUDENT) LOOP

DEMS_OUTPUT_PUT_LINE('RegNo: ' || rec.RegNo || ', Name: ' || rec.Name);

END LOOP;

END;
```

```
Part of the Part of
                                                                                  A Section
List movies directed by 3000°.
BELLET THE
FROM MOVIES
wester - "XXXX";
) Mores with actors in two or more films.
                                                                                  () Compression
SELECT TIPE
FIRST MENTILS
WHEN ACTOR 1d IN C
    MILEC! METOL M
    THEM REVES
    SHORP BY ACTOR IS
   HOW ING COUNTY > 1
 13
) Actors in movies before 2010 and after 2015.
                                                                                  (2) Complement
SELECT DESTEROT IN
PROPERTY OF
MIN MOVIES at On a Actor 14 - at Actor 14
MIN MOVIES at On a Actor id - at Actor id
which at. Year c 2008 ME M2. Wate 3 2005;
) Create a view of movies with actor and director.
                                                                                  (i) Compression
CREATE VIEW Moveley Actor Director All
MISCI S.Title, a. Home AS Actor, d. Home AS Director
THE RESPONDED TO
2038 ACTORS a DN m.Actor_id = a.Actor_id
NOS DESECTORS & Ch a Strector Ld - d.Director Ld;
) Function to get movie title.
                                                                                   (a) Garage stands
-
CHEATE ON REPLACE PURCTION for Novia Title (nov.id in MARGER) RETURN WARCHES IS
    TITLE WARRIES (100);
 81 (613)
     SHARES THEM INTO THESE
    HOOM CONTRACTOR
    ment Howks lid - mov lid;
    nd turns to high
 1.00
```

```
50
                                                                                  (7) Copy code
CREATE OR REPLACE TRIGGER Insert Employee
AFTER INSERT ON Employee
FOR EACH ROW
BEGIN
   DBMS_OUTPUT.PUT_LINE('New Employee Added: ' | :NEN.Name);
EMD.
CREATE OR REPLACE TRIGGER Delete_Employee
AFTER DELETE ON Employee
FOR EACH ROM
BEGIN
   DBMS_OUTPUT_PUT_LIDME('Employee Deleted: ' || :OLD.Name);
END;
CREATE OR REPLACE TRIGGER Update Employee
AFTER UPDATE ON Employee
FOR EACH ROW
BEGIN
   DEMS_OUTPUT_PUT_LINE('Employee Updated: ' | :NEW.Name);
```

END;

12. Salesman, Customer, Orders

a) Salesmen with more than one customer.

```
SALECT s. Name

FROM SALESMAN s

SOUN CUSTOMER c ON s. Salesman_id = c. Salesman_id

GROUP BY s. Name

HAVING CONVI(c. Customer_id) > 1;
```

b) Salesmen with and without customers in their cities.

```
SALECT N. Name, CASE WHEN C. Costneor_Id IS NOT MILL THEN 'How Costneors' ELSE 'He Costneors HEST BOLD COSTONER c ON S. Sulesman_Id = c. Salesman_Id and s.City = c.City;
```

c) View to find the sales man with the highest order of the day.

```
CHEATE VIEW Top_Salesman AS

SELECT N. Name

FROM SALESMAN N

SOUN CUSTOMER C ON N. Salesman_id = c.Salesman_id

SOUN ORDERS o ON c.Customer_id = o.Customer_id

WHERE o.Order_Amount = (SELECT MAX(Order_Amount) FROM ORDERS WHERE Order_Data = SYSDATE);
```

d) Delete salesman with ID 1000 and all his orders.

```
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```

e) Triggers for insert, delete, and update.

```
(a) Copy costs
4
CHEATE ON REPLACE TRIGGER Intert Salasman
AFTER INSERT ON SALESMAN
FOR EACH .
HEGER
   DONS CUTPUT, PUT_LIME('New Salesman Added: ' | INEM. Name);
HILL
CREATE OR REPLACE TRIGGER Delete Salesman
AFTER DELETT ON SALESMAN
FOR EACH II
BEGIN
   DONS CUTPUT.PUT LINE('Salesman Coleted: ' | :OLD.Name);
END
CREATE OF REPLACE THISGER Update Salesman
AFTER WHOM'S ON SALESHAN
FOR EACH RO
HIGHN
    COMS_CUTPUT.PUT_LIME('Salesman todated: ' | :NEM.Hame);
HID
```

10. Customer and Order

FROM ORDER

WHERE Price >= 1000;

c) List product names ordered by customers from Delhi.

```
SELECT DISTINCT o.Product_Name

FROM ORDER o

JOIN CUSTOMER c ON o.Customer_id = c.Customer_id

WHERE c.City = 'Delhi';
```

d) Add Email_id column in CUSTOMER table.

```
ALTER TABLE CUSTOMER ADD (Email_id VARCHAR2(100));
```

e) Function to get customer address.

```
CREATE OR REPLACE FUNCTION Get_Customer_Address (c_id in NUMBER) RETURN VARCHAR2 IS

address VARCHAR2(155);

BEGIN

SELECT Address INTO address

FROM CUSTOMER

WHERE Customer_id = c_id;

RETURN address;

END;
```

1. Library Database

a) Retrieve book details.

```
SELECT Book_id, Title, Publisher_Name
FROM BOOK;
```

b) Borrowers with more than 3 books borrowed between Jan 2017 and Jun 2017.

```
SELECT Borrower_ID

FROM BORROWINGS

WHERE Borrow_Date BETWEEN '2017-01-01' AND '2017-06-30'

GROUP BY Borrower_ID

HAVING COUNT(Book_ID) > 3;
```

c) Delete a book and update other tables.

```
DELETE FROM BOOK_MHERE Book_id = 1; -- Replace 1 with the actual book id

DELETE FROM BOOK_AUTHORS WHERE Book_id = 1;
```

d) Create a view of available books.

```
CREATE VIEW Available_Books AS
SELECT Book_id, Title
FROM BOOK
WHERE No_of_copies > 0;
```

e) Procedure to display book details by author.

```
CREATE OR REPLACE PROCEDURE Get_Books_By_Author (author_name IN VARCHAR2) IS

BEGIN

FOR rec IN (SELECT Title FROM BOOK WHERE Book_id IN (SELECT Book_id FROM BOOK_AUTHORS LOOP

DBMS_OUTPUT.PUT_LINE('Title: '|| rec.Title);

END LOOP;

END;
```

3. Employee Table with Additional Queries

a) Display students in semester 'xxx'.

```
343
                                                                                      (7) Copy code
  SELECT Mane, Salary
  FROM Employee
  WHERE Department - 'XXX';
b) Lowest-paid employee in each department.
```

```
(Copy code
no!
SELECT Department, HIN(Salary) AS Lowest_Paid
FROM Employee
GROUP BY Department:
```

c) List employee names in descending order.

```
(D) Copy code
30
SELECT Mame FROM Employee ORDER BY Mame DESC;
```

d) Rename column.

```
ng!
                                                                                Copy code
ALTER TABLE Employee REMAME COLUMN Job TO Position;
```

e) Insert row using triggers.

```
(Copy code
mi.
CREATE OR REPLACE TRIGGER Insert_Trigger
BEFORE INSERT ON Employee
FOR EACH ROW
BEGIN
    IF :NEW. Salary IS NULL THEN
        :NEW.Salary := 1800; -- Default Salary
    END 117
END
```

14. Supplier Table

a) Display supplier numbers and names where names start with 'S'.

```
SELECT Sup No. Sup Name
FROM Supplier
WHERE Sup Name LIKE "SE":
```

b) Add CONTACTNO column.

```
ALTER TABLE Supplier AND (CONTACTED WARDWARD(15));
```

Display supplier numbers, names, and item prices for Chennai.

```
SELECT Sup No. Sup Name, Item Price
FROM Supplier
WHIRE City - 'Chemnal';
```

d) Create a view showing only supplier numbers and names.

```
CREATE VIEW Supplier View AS
SELECT Sup No., Sup Name
(MCM Supplier;
```

e) Procedure to show supplier details.

```
CHEATE ON REPLACE PROCESSION Show Supplier Details as

HEGIN

FOR rec IN (SELECT * FROM Supplier No: " || rec.Sup No || ', Name: ' || rec.Sup Name);

ENO;

ENO;
```