Create/Drop/Describe Table

create table department (dept_id number(7) primary key, dept_name varchar2(50) unique, regi_date date default sysdate);

create table contact (con_id number(7) primary key, mobile number(15) unique, country varchar2(50) default 'Bangladesh')

create table employee (id number(7) primary key, emp_name varchar2(20) not null, salary number(7,2) check(salary>=25000), joining_date date check(joining_date<='01-Jan-2000'), dept_id number(7) not null, con_id number(7), constraint emp_dep foreign key (dept_id) references department, constraint emp_con foreign key (con_id) references contact);

create table department_backup as select * from department;

drop table dhaka;

desc dhaka:

Create Role/User

create role super_user;

create user shuvo identified by shuvo;

Grant Privilege

grant create session, create table, create view, create sequence, create procedure, create synonym, create trigger to super_user;

grant super_user to shuvo;

grant dba to shuvo;

Grant Tablespace to User

grant unlimited tablespace to shuvo;

alter user olive quota 500m on system;

Insert Data

insert into department values (dept_seq.nextval, 'Administration');

insert into contact (con_id, mobile, country) values(con_seq.nextval, 01712345678, 'Japan');

insert into employee (id, emp_name, salary, joining_date, dept_id, con_id) values(emp_seq.nextval, 'AAA', 25000, '01-Feb-1998', 10, 10);

Table Privilege/Add Constraints

ALTER TABLE dhaka READ ONLY;

ALTER TABLE dhaka READ WRITE;

ALTER TABLE department ADD (job_id VARCHAR2(9));

ALTER TABLE department DROP COLUMN job_id;

alter table department modify (dept_name varchar2(55));

alter table employee add constraints emp_dept_id unique (con_id);

Update Data

update dhaka set name='C' where income = 30000;

update employee set salary=35000, emp_name='BBB' where con_id=15;

update company set brand_id = (select brand_id from company where name='Google Inc.') where id=03;

Create View/Sequence/Synonym/Index

create sequence dept_seq increment by 10 start with 10 maxvalue 5000 nocache nocycle;

create sequence con_seq increment by 5 start with 5 nocache nocycle;

create sequence emp_seq increment by 1 start with 1 nocache nocycle;

create view dha_view1 as select id, name, email from dhaka;

create or replace view empvu80 (id_number, name, sal, department_id) as select employee_id, first name||''| || last_name, salary, department_id from employees;

CREATE OR REPLACE VIEW dept_sum_vu (name, minsal, maxsal, avgsal) AS SELECT d.department_name, MIN(e.salary), MAX(e.salary), AVG(e.salary) FROM employees e JOIN departments d ON (e.department_id = d.department_id) GROUP BY d.department_name;

CREATE INDEX emp_last_name_idx ON employees(last_name);

create synonym e20 for empvu80;

Show View/Table/Sequence/Username

select view name from user views;

select table_name from user_tables;

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select sequence_name from user_sequences;
select USERNAME from DBA USERS;
                                     Autocommit
show autocommit;
set autocommit on:
                                      Delete Data
delete brand where id=04;
delete from department;
truncate table brand; (Works with DDL Statement)
                                    Spool On/Off
spool E:/quiz.txt;
spool off;
                           Create Trigger for Insert
Step-1: Create Two Tables
create table usa (id number (5), fname varchar2(55), lname varchar2(55));
create table usa_backup as select * from usa;
Step-2: Create Trigger:
CREATE OR REPLACE TRIGGER usa_trigger AFTER insert ON usa (NB: after update/before delete)
FOR EACH ROW
DECLARE
BEGIN
insert into usa_backup values (:new.id, :new.fname, :new.lname);
dbms_output.put_line ('Data inserted successfully on usa_backup table');
END;
Step-3: Insert Data & View from Backup Table
insert into usa values (01, 'Mehedi', 'Hasan');
select * from usa_backup;
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Create Trigger for Update

Step-1: Create Trigger

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CREATE OR REPLACE TRIGGER usa_trigger_update AFTER update ON usa
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FOR EACH ROW

DECLARE

BEGIN

UPDATE usa_backup

set id = :new.id, name = :new.name, lname = :new.lname

where id = :old.id or name = :old.name or lname = :old.lname;

dbms_output.put_line ('Data successfully updated into usa_backup table');

END;

Step-2: Update Main Table & View from Backup Table

update usa set name = 'Hollywood' where id = 5010;

update usa set id = 5010 where name = 'Hollywood';

select * from usa_backup;

Create Trigger for Delete

Step-1: Create Trigger

CREATE OR REPLACE TRIGGER usa_trigger_delete AFTER delete ON usa

FOR EACH ROW

DECLARE

BEGIN

DELETE from usa_backup

where id = :old.id or name = :old.name;

dbms_output.put_line ('Data successfully deleted from usa_backup table');

END;

Step-2: Delete from Main Table & View from Backup Table

delete from usa where name = 'Los Angeles';

delete from usa where id = 5010;

select * from usa_backup;