Project Title: Delivery Management System (Oracle 19c SQL)

How to create user (LOGIN WITH DBA PRIVILEGES)

- 1. system/tiger
- 2. Conn
- 3. SELECT USERNAME FROM DBA_USERS;
- 4. CREATE USER PANKAJ IDENTIFIED BY tiger;
- 5. GRANT DBA TO USER;
- 6. Grant succeeded.

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SET PAGESIZE 50;
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SET LINESIZE 150;

- 1. The project Name is Delivery Management System
 - DDL (CREATE, ALTER, DROP, TRUNCATE, RENAME, FLASHBACK)
 - DML (INSERT, UPDATE, DELETE, INSERT ALL)
 - DQL / DRL (SELECT Queries)
 - TCL (COMMIT, ROLLBACK)
 - DCL (GRANT, REVOKE)
 - CRUD Implementation

2. DDL (Data Definition Language)

2.1 Create Tables

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EMP
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CREATE TABLE EMP (

EMPNO NUMBER(4), ENAME VARCHAR2(50) NOT NULL,

JOB VARCHAR2(20) CHECK (JOB IN ('COURIER', 'DISPATCHER', 'MANAGER')),

SAL NUMBER(7,2) CHECK (SAL > 0),

HIREDATE DATE DEFAULT SYSDATE,

DEPTNO NUMBER(2)

);
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```
DEPT
     CREATE TABLE DEPT (
       DEPTNO NUMBER(2) PRIMARY KEY,
       DNAME VARCHAR2(50) NOT NULL UNIQUE,
       LOC VARCHAR2(50) NOT NULL
     );
     DELIVERIES
     CREATE TABLE DELIVERIES (
       ORDER ID NUMBER(6), EMPNO NUMBER(4),
       DELIVERY DATE DATE DEFAULT SYSDATE,
       STATUS VARCHAR2(15) CHECK (STATUS IN ('PENDING', 'DELIVERED',
'CANCELLED')),
       LOCATION VARCHAR2(100),
       CUSTOMER NAME VARCHAR2(50)
     );
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2.2 ALTER TABLE

SELECT * FROM TAB;

ALIER TABLE EMP ADD PHONE VARCHARZ(15);
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DESC EMP;
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2.3 RENAME TABLE
RENAME EMP TO EMPLOYEES;
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SELECT * FROM TAB;
SELECT TROIVITAD,

2.4 TRUNCATE TABLE

INSERTING SOME DETAILS TO DELIVERIES

INSERT INTO DELIVERIES (ORDER_ID, EMPNO, DELIVERY_DATE, STATUS, LOCATION, CUSTOMER_NAME)
VALUES (101, 2001, SYSDATE, 'PENDING', 'Mumbai', 'Rajesh Sharma');

INSERT INTO DELIVERIES (ORDER_ID, EMPNO, DELIVERY_DATE, STATUS, LOCATION, CUSTOMER NAME)

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VALUES (102, 2002, SYSDATE - 1, 'DELIVERED', 'Pune', 'Anita Verma');
INSERT INTO DELIVERIES (ORDER ID, EMPNO, DELIVERY DATE, STATUS,
LOCATION, CUSTOMER NAME)
VALUES (103, 2003, SYSDATE - 2, 'CANCELLED', 'Hyderabad', 'Sunil Kumar');
INSERT INTO DELIVERIES (ORDER ID, EMPNO, DELIVERY DATE, STATUS,
LOCATION, CUSTOMER NAME)
VALUES (104, 2004, SYSDATE, 'PENDING', 'Bangalore', 'Meena Rao');
INSERT INTO DELIVERIES (ORDER ID, EMPNO, DELIVERY DATE, STATUS,
LOCATION, CUSTOMER NAME)
VALUES (105, 2005, SYSDATE - 3, 'DELIVERED', 'Chennai', 'Vikram Singh');
COMMIT;
SELECT * FROM DELIVERIES;
TRUNCATE TABLE DELIVERIES;
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SELECT * FROM DELIVERIES;
2.5 DROP TABLE
DROP TABLE DEPT;
SELECT * FROM TAB;
2.6 RECYCLEBIN
SELECT * FROM TAB;
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SHOW RECYCLEBIN;
2.7 FLASHBACK
FLASHBACK TABLE DEPT TO BEFORE DROP;
2.8 PURGE
PURGE TABLE DEPT;
SHOW RECYCLEBIN;
```

3. DML (Data Manipulation Language)

3.1 INSERT DATA

INSERT INTO EMPLOYEES (EMPNO, ENAME, JOB, SAL, DEPTNO) VALUES (1001, 'John Doe', 'COURIER', 2500, 30);

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SELECT * FROM EMPLOYEES;
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3.2 INSERT ALL INSERT ALL

INSERT ALL

INTO EMPLOYEES (EMPNO, ENAME, JOB, SAL, DEPTNO) VALUES (1002, 'Alice Smith', 'DISPATCHER', 3200, 20)
INTO EMPLOYEES (EMPNO, ENAME, JOB, SAL, DEPTNO) VALUES (1003, 'Bob Johnson', 'MANAGER', 5000, 10)
SELECT * FROM DUAL;
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SELECT * FROM EMPLOYEES;

3.3 UPDATE DATA

UPDATE EMPLOYEES SET SAL = 2800 WHERE EMPNO = 1001;
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3.4 DELETE DATA

DELETE FROM EMPLOYEES WHERE EMPNO = 1001;
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SELECT * FROM EMPLOYEES;

4. DQL / DRL (Data Query / Data Retrieval Language) 4.1 SELECT Queries

SELECT * FROM EMPLOYEES;
SELECT * FROM DELIVERIES WHERE STATUS = 'PENDING';

5. TCL (Transaction Control Language)

5.1 COMMIT

INSERT INTO EMPLOYEES (EMPNO, ENAME, JOB, SAL, DEPTNO) VALUES (1004, 'David Green', 'COURIER', 2600, 30); COMMIT;

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SELECT * FROM EMPLOYEES;

5.2 ROLLBACK

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DELETE FROM EMPLOYEES WHERE EMPNO = 1004;
ROLLBACK;
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SELECT * FROM EMPLOYEES;
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6. DCL (Data Control Language)

6.1 GRANT

GRANT SELECT, INSERT ON EMPLOYEES TO PANKAJ;

6.2 REVOKE

REVOKE INSERT ON EMPLOYEES FROM PANKAJ;

7. CRUD-Based Delivery Management System

7.1 Create

```
CREATE TABLE DELIVERIES (
ORDER_ID NUMBER(6) PRIMARY KEY,
EMPNO NUMBER(4),
DELIVERY_DATE DATE DEFAULT SYSDATE,
STATUS VARCHAR2(15) CHECK (STATUS IN ('PENDING', 'DELIVERED',
'CANCELLED')),
LOCATION VARCHAR2(100),
CUSTOMER_NAME VARCHAR2(50)
);
```

7.2 Read

SELECT * FROM DELIVERIES WHERE STATUS = 'PENDING';

7.3 Update

UPDATE DELIVERIES SET STATUS = 'DELIVERED' WHERE ORDER_ID = 5001;

7.4 Delete

DELETE FROM DELIVERIES WHERE ORDER_ID = 5001;

HOW TO DROP THE USER

- 1) Exit;
- 2) Login with DBA access
- 3) I.e. system/tiger
- 4) DROP USER PANKAJ CASECADE;