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Class: B.Sc. IT semester-I Div-
Subject: DBMS
Practical Assignment Aim: 5 (SQL DDL & DML STATEMENT)
Date of Practical Assignment:
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1. CREATE FOLLOWING TABLES: BIT dept
CREATE TABLE BIT dept (
DEPTNO NUMBER (3),
DNAME VARCHAR2 (10),
LOC VARCHAR2 (30)
);
* CREATE FOLLOWING TABLES: BIT emp
CREATE TABLE BIT emp (
EMPNO NUMBER (4),
ENAME VARCHAR2 (7),
JOB VARCHAR2 (12)),
HIREDATE DATE,
MGR NUMBER (5),
SAL NUMBER (5),
COMM NUMBER (7),
DEPTNO NUMBER (3)
);
1. Add check constraint on JOB
field(CLERK, SALESMAN, MANAGER, ANALYST, PRESIDENT )
ALTER TABLE BIT emp ADD CHECK (JOB
IN('CLERK','CLARK','SALESMAN','ANALYST','PRESIDENT','MANAGER'));
3. Insert records as per given record format.
INSERT INTO BIT emp
VALUES (7369, 'SMITH', 'CLERK', 'DEC/17/1980', 7902, 800, NULL, 20);
INSERT INTO BIT emp
VALUES (7499, 'ALLEN', 'SALESEMAN', 'FEB/20/1981', 7698, 1600, 300, 30);
INSERT INTO BIT emp
VALUES (7521, 'WARD', 'SALESEMAN', 'FEB/22/1981', 7698, 1250, 500, 30);
INSERT INTO BIT emp
VALUES (7566, 'JONES', 'MANAGER', 'APR/02/1981', 7839, 2975, NULL, 20);
INSERT INTO BIT emp
VALUES (7654, 'MARTIN', 'SALESEMAN', 'SEP/28/1981', 7698, 1512, 1400, 30);
INSERT INTO BIT emp
VALUES (7698, 'BLAKE', 'MANAGER', 'MAY/01/1981', 7839, 2850, NULL, 30);
INSERT INTO BIT emp
VALUES (7782, 'CLARK', 'MANAGER', 'JUN/09/1981', 7839, 2450, NULL, 10)
INSERT INTO BIT emp
VALUES (7788, 'SCOTT', 'ANALYST', 'APR/19/1987', 7566, 3000, NULL, 20)
INSERT INTO BIT emp
VALUES (7839, 'KING', 'PRESEDENT', 'NOV/17/1981', NULL, 5000, NULL, 10)
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INSERT INTO BIT emp
VALUES (7844, 'TURNER', 'SALESEMAN', 'SEP/08/1981', 7698, 1500, 0, 30);
INSERT INTO BIT emp
VALUES (7876, 'ADAMA', 'CLERK', 'MAY/23/1987', 7788, 1100, NULL, 20)
INSERT INTO BIT emp
VALUES (7900, 'JAMES', 'CLERK', 'DEC/03/1981', 7698, 950, NULL, 30)
INSERT INTO BIT emp
VALUES (7902, 'FORD', 'ANALYST', 'DEC/03/1981', 7566, 3000, NULL, 20)
INSERT INTO BIT emp
VALUES (7934, 'MILLER', 'CLERK', 'JAN/23/1982', 7782, 1300, NULL, 10)
1. Insert records as per given record format.
INSERT INTO BIT dept
VALUES (10, 'ACCOUNTING', 'NEW YORK');
INSERT INTO BIT dept
VALUES (20, 'RESEARCH', 'DALLAS');
INSERT INTO BIT dept
VALUES (30, 'SALES', 'CHICAGO');
INSERT INTO BIT dept
VALUES (40, 'OPERATIONS', 'BOSTON');
1. Display all records of employee table.
select * from BIT emp
EMPNO ENAME JOB HIREDATE MGR SAL COMM DEPTNO
7499 ALLEN SALESMAN 02/20/1981 76998 1600 300 30
7521 WARD SALESMAN 02/22/1981 7698 1250 500 30
7566 JONES MANAGER 04/02/1981 7839 2975 -
                                                    20
7654 MARTIN SALESMAN 09/28/1981 7698 1512 1400 30 7698 BLAKE MANAGER 05/01/1981 7839 2850 - 30
7782 CLARK MANAGER 06/09/1981 7839 2450 - 7788 SCOTT ANALYST 04/19/1987 7566 3000 -
                                                    10
                                                    20
7839 KING PRESIDENT 11/17/1981 - 5000 -
                                                    10
7902 FORD ANALYST 12/03/1981 7566 3000 -
7934 MILLER CLARK 01/23/1982 7782 1300 -
7876 ADAMA CLERK 05/23/1987 7788 1100 - 20
7844 TURNER SALESMAN 09/08/1981 7698 1500 0
                                                           30
7900 JAMES CLARK 12/03/1981 7698 950 -
```

- 1.Change field size as 30 for employee name
 ALTER TABLE BIT_emp MODIFY ENAME VARCHAR2(30);
- 1.Add new column "email" of department as varchar on Department table. ALTER TABLE BIT_dept ADD EMAIL VARCHAR(200);
- 1.Display all records whose employee job is not CLERK SELECT * FROM BIT_emp WHERE JOB NOT IN ('CLERK'); EMPNO ENAME JOB HIREDATE MGR SAL COMM DEPTNO

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7499 ALLEN SALESMAN 02/20/1981 76998 1600 300 30
7521 WARD SALESMAN 02/22/1981 7698 1250 500 30
7566 JONES MANAGER 04/02/1981 7839 2975 - 20
7654 MARTIN SALESMAN 09/28/1981 7698 1512 1400 30
7698 BLAKE MANAGER 05/01/1981 7839 2850 - 30
7782 CLARK MANAGER 06/09/1981 7839 2450 - 7788 SCOTT ANALYST 04/19/1987 7566 3000 -
                                                        10
                                                        20
7839 KING PRESIDENT 11/17/1981 - 5000 -
7902 FORD ANALYST 12/03/1981 7566 3000 -
                                                        20
7934 MILLER CLARK 01/23/1982 7782 1300 - 10
7844 TURNER SALESMAN 09/08/1981 7698 1500 0
                                                              30
7900 JAMES CLARK 12/03/1981 7698 950 -
                                                   30
1. Display all employee records whose department code is 10.
SELECT * FROM BIT dept WHERE DEPTNO='10';
DEPTNO
          DNAME LOC EMAIL
     ACCOUNTING NEW YORK
1. Display all employee name whose name stated with 'S' and salary not
less than 1000.
SELECT * FROM BIT emp WHERE (SAL>1000) AND ENAME LIKE 'S%';
EMPNO ENAME JOB HIREDATE MGR SAL COMM DEPTNO
7788 SCOTT ANALYST 04/19/1987 7566 3000 - 20
     Retrieve department name from IT department whose location contains
'A' character.
SELECT DNAME FROM BIT dept WHERE LOC LIKE '%A%'
DNAME
RESEARCH
SALES
1. Display employee name, job and hire date whose salary between 2000 to
SELECT ENAME, JOB, HIREDATE FROM BIT emp WHERE SAL BETWEEN 2000 AND 3000;
ENAME JOB HIREDATE
JONES MANAGER 04/02/1981
BLAKE MANAGER 05/01/1981
CLARK MANAGER 06/09/1981
SCOTT ANALYST 04/19/1987
FORD ANALYST 12/03/1981
1. Display employee number, employee name, hiredate, department number and
salary whose mgr code is 7698 or 7566
SELECT EMPNO, ENAME, HIREDATE, DEPTNO, SAL FROM BIT emp WHERE MGR =7698 OR
MGR=7566;
EMPNO ENAME HIREDATE DEPTNO
                                      SAL
7521 WARD 02/22/1981 30 1250
7654 MARTIN 09/28/1981 30
                                      1512
7788 SCOTT 04/19/1987 20 3000
7902 FORD 12/03/1981 20 3000
```

7844 TURNER 09/08/1981 30 1500

7900 JAMES 12/03/1981 30 950

1.Increment the commission as 10% of salary for employee whose job is 'MANAGER'.

SELECT (SAL*10/100) AS COMM FROM BIT_emp WHERE JOB='MANAGER' COMM

297.5

285

245

14.Delete employee information whose employee name is 'SMITH'. DELETE FROM BIT_emp WHERE ENAME='SMITH';

15.Delete records of the table IT_employee.
DELETE FROM BIT_emp;