

2. DATA MANIPULATION

```
Run SQL Command Line
2 VALUES (103, 'Emily', 'Johnson', 'ejohnson@xyz.com', '987-456-7890', TO_DATE('2021-03-20', 'YYYY-MM-DD'), 'IT_PROG', 52000, 0.10, 100, 60);
1 row created.

SQL> INSERT INTO employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id)
2 VALUES (104, 'Micheal', 'Brown', 'mbrown@xyz.com', '111-226-7890', TO_DATE('2018-04-22', 'YYYY-MM-DD'), 'AD_ASST', 30000, 0.05, 102, 10);
1 row created.

SQL> SELECT employee_id, first_name, last_name, salary FROM employees;

EMPLOYEE_ID FIRST_NAME LAST_NAME SALARY
-----
101 John Smith 60000
102 Jane Doe 45000
103 Emily Johnson 52000
104 Micheal Brown 30000

SQL> SELECT employee_id, first_name, last_name FROM employees WHERE manager_id = 100;

EMPLOYEE_ID FIRST_NAME LAST_NAME
-----
101 John Smith
103 Emily Johnson

SQL> SELECT employee_id, first_name, last_name FROM employees WHERE salary >= 48000;

EMPLOYEE_ID FIRST_NAME LAST_NAME
-----
101 John Smith
103 Emily Johnson

SQL> SELECT employee_id, first_name, last_name FROM employees WHERE last_name = 'AUSTIN';
no rows selected

SQL> SELECT employee_id, first_name, last_name FROM employees WHERE department_id IN (60, 70, 80);

EMPLOYEE_ID FIRST_NAME LAST_NAME
-----
101 John Smith
103 Emily Johnson
```

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```
Run SQL Command Line
MANAGER_ID
-----
100
102
101

SQL> CREATE TABLE departments(
2 dept_id NUMBER(6) NOT NULL,
3 dept_name VARCHAR2(20) NOT NULL,
4 manager_id NUMBER(6),
5 location_id NUMBER(4)
6 );
Table created.

SQL> CREATE TABLE job_grades(
2 grade_level VARCHAR2(2),
3 lowest_sal NUMBER,
4 highest_sal NUMBER
5 );
Table created.

SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40)
4 );
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40)
4 );
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40),
4 postal_code VARCHAR2(12),
5 city VARCHAR2(30) NOT NULL,
6 state_province VARCHAR2(25),
7 country_id CHAR(2)
8 );
Table created.
```

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```
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4 manager_id NUMBER(6),
5 location_id NUMBER(4)
6 );
Table created.
SQL> CREATE TABLE job_grades(
2 grade_level VARCHAR2(2),
3 lowest_sal NUMBER,
4 highest_sal NUMBER
5 );
Table created.
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40)
4 );
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40)
4 0
5 );
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40),
4 postal_code VARCHAR2(12),
5 city VARCHAR2(30) NOT NULL,
6 state_province VARCHAR2(25),
7 country_id CHAR(2)
8 );
Table created.
SQL> CREATE TABLE emp(
2 id NUMBER(7),
3 last_name VARCHAR(25),
4 first_name VARCHAR2(25),
5 dept_id NUMBER(7)
6 );
Table created.
SQL>
```

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```
Run SQL Command Line
Table created.
SQL> CREATE TABLE job_grades(
2 grade_level VARCHAR2(2),
3 lowest_sal NUMBER,
4 highest_sal NUMBER
5 );
Table created.
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40)
4 );
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40)
4 0
5 );
SQL> CREATE TABLE locations(
2 location_id NUMBER(4) NOT NULL,
3 st_addr VARCHAR2(40),
4 postal_code VARCHAR2(12),
5 city VARCHAR2(30) NOT NULL,
6 state_province VARCHAR2(25),
7 country_id CHAR(2)
8 );
Table created.
SQL> CREATE TABLE emp(
2 id NUMBER(7),
3 last_name VARCHAR(25),
4 first_name VARCHAR2(25),
5 dept_id NUMBER(7)
6 );
Table created.
SQL> ALTER TABLE emp MODIFY last_name VARCHAR2(50);
Table altered.
SQL>
```

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2. DATA MANIPULATION

```
Run SQL Command Line

SQL> DESCRIBE dept;
ERROR:
ORA-04043: object dept does not exist

SQL> ALTER TABLE emp DROP COLUMN first_name;
Table altered.

SQL> sql copy code DESCRIBE emp;
SP2-0734: unknown command beginning "sql copy c..." - rest of line ignored.
SQL> sql copy code DESCRIBE emp;
SP2-0734: unknown command beginning "sql copy c..." - rest of line ignored.
SQL> DESCRIBE dept;
ERROR:
ORA-04043: object dept does not exist

SQL> DESCRIBE emp;
Name                               Null?    Type
-----
EMPLOYEE_ID                       NOT NULL NUMBER(6)
LAST_NAME                         NOT NULL VARCHAR2(25)
SALARY                            NUMBER(8,2)
DEPT_ID                           NUMBER(4)

SQL> DESCRIBE dept;
ERROR:
ORA-04043: object dept does not exist

SQL> DESCRIBE departments;
Name                               Null?    Type
-----
DEPT_ID                           NOT NULL NUMBER(6)
DEPT_NAME                         NOT NULL VARCHAR2(28)
MANAGER_ID                        NUMBER(6)
LOCATION_ID                        NUMBER(4)

SQL>
```

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