1. CREATE DATABASE ADBMSLAB;

USE ADBMSLAB;

create table LOCATION(LOCATION\_ID INT,REGIONAL\_GRP VARCHAR(10));

INSERT INTO LOCATION(LOCATION\_ID,REGIONAL\_GRP)

VALUES

(122,'NEW YORK'),

(123,'DALLAS'),

(124,'CHICAGO'),

(167,'BOSTON');

1. CREATE TABLE DEPARTMENT(DEPARTMENT\_ID INT,NAME VARCHAR(10),LOCATION\_ID INT);

INSERT INTO DEPARTMENT(DEPARTMENT\_ID,NAME,LOCATION\_ID)

VALUES

(10,'ACCOUNTING',122),

(20,'RESEARCH',123),

(30,'SALES',124),

(40,'OPERATION',167);

1. CREATE TABLE JOB(JOB\_ID INT,JFUNCTION VARCHAR(12));

INSERT INTO JOB(JOB\_ID,JFUNCTION)

VALUES

(667,'CLERK'),

(668,'STAFF'),

(669,'ANALYSIS'),

(670,'SALESPERSON'),

(671,'MANAGER'),

(672,'PRESIDENT');

1. CREATE TABLE EMPLOYEE(EMPLOYEE\_ID INT,LAST\_NAME VARCHAR(10),FIRST\_NAME VARCHAR(10),MIDDLE\_NAME VARCHAR(1),JOB\_ID INT,MANAGER\_ID INT,HIREDATE DATE,SALARY INT,COMM INT,DEPARTMENT\_ID INT);

INSERT INTO EMPLOYEE(EMPLOYEE\_ID,LAST\_NAME,FIRST\_NAME,MIDDLE\_NAME,JOB\_ID,MANAGER\_ID,HIREDATE,SALARY,COMM,DEPARTMENT\_ID)

VALUES

(7369,'SMITH','JOHN','Q',667,7902,'1984-12-17',800,NULL,20),

(7499,'ALLEN','KEVIN','J',670,7698,'1985-02-20',1600,300,30),

(7505,'DOYLE','JEAN','K',671,7839,'1985-04-04',2850,NULL,30),

(7506,'DENNIS','LYNN','S',671,7839,'1985-05-15',2750,NULL,30),

(7507,'BAKER','LESLIE','D',671,7839,'1985-06-10',2200,NULL,40),

(7521,'WARK','CYNTHIA','D',670,7698,'1985-02-22',1250,500,30),

(7508,'SINGH','ANUBHAV','A',672,7585,'1985-06-06',4000,NULL,10),

(7509,'KANCHAN','SAMARTH','P',668,7466,'1985-11-18',3200,NULL,10),

(7510,'LAAD','PRANJAL','D',668,7458,'1985-06-19',3000,400,20),

(7511,'SHARMA','YASHIKA','V',668,7254,'1985-05-13',3100,NULL,20),

(7512,'GADEKAR','CHANDRESH','T',668,7456,'1985-05-23',3400,200,20);

1. SELECT FIRST\_NAME,LAST\_NAME,SALARY,COMM FROM EMPLOYEE;
2. SELECT EMPLOYEE\_ID,LAST\_NAME,DEPARTMENT\_ID FROM EMPLOYEE;

ALTER TABLE EMPLOYEE

CHANGE COLUMN EMPLOYEE\_ID ID\_OF\_EMP INT,

CHANGE COLUMN LAST\_NAME NAME\_OF\_EMP VARCHAR(12),

CHANGE COLUMN DEPARTMENT\_ID DEPT\_ID INT;

SELECT ID\_OF\_EMP,NAME\_OF\_EMP,DEPT\_ID FROM EMPLOYEE;

1. SELECT FIRST\_NAME,NAME\_OF\_EMP,SALARY FROM EMPLOYEE;
2. SELECT \* FROM EMPLOYEE WHERE NAME\_OF\_EMP='SMITH';
3. SELECT \* FROM EMPLOYEE WHERE DEPT\_ID=20;
4. SELECT FIRST\_NAME,NAME\_OF\_EMP FROM EMPLOYEE WHERE SALARY BETWEEN 3000 AND 4500;
5. SELECT FIRST\_NAME,NAME\_OF\_EMP FROM EMPLOYEE WHERE DEPT\_ID=10 OR 20;
6. SELECT FIRST\_NAME,NAME\_OF\_EMP FROM EMPLOYEE WHERE DEPT\_ID NOT IN (10 OR 30);
7. SELECT NAME\_OF\_EMP,FIRST\_NAME FROM EMPLOYEE WHERE NAME\_OF\_EMP LIKE 'S%';
8. SELECT NAME\_OF\_EMP,FIRST\_NAME FROM EMPLOYEE WHERE NAME\_OF\_EMP LIKE 'S%H';
9. SELECT NAME\_OF\_EMP,FIRST\_NAME FROM EMPLOYEE WHERE NAME\_OF\_EMP LIKE 'S%' AND LENGTH(NAME\_OF\_EMP)=5;
10. SELECT NAME\_OF\_EMP,FIRST\_NAME FROM EMPLOYEE WHERE DEPT\_ID=10 AND SALARY>3500;
11. SELECT NAME\_OF\_EMP,FIRST\_NAME FROM EMPLOYEE WHERE COMM IS NULL;
12. SELECT ID\_OF\_EMP,NAME\_OF\_EMP FROM EMPLOYEE ORDER BY ID\_OF\_EMP ;
13. SELECT ID\_OF\_EMP,NAME\_OF\_EMP,SALARY FROM EMPLOYEE ORDER BY SALARY DESC;
14. SELECT NAME\_OF\_EMP,SALARY FROM EMPLOYEE ORDER BY NAME\_OF\_EMP AND SALARY DESC;
15. SELECT \* FROM EMPLOYEE ORDER BY DEPT\_ID DESC AND NAME\_OF\_EMP;
16. SELECT COUNT(ID\_OF\_EMP),DEPT\_ID FROM EMPLOYEE GROUP BY DEPT\_ID;
17. SELECT DEPT\_ID,MAX(SALARY),MIN(SALARY),AVG(SALARY) FROM EMPLOYEE GROUP BY DEPT\_ID;
18. SELECT JOB\_ID,MAX(SALARY),MIN(SALARY),AVG(SALARY) FROM EMPLOYEE GROUP BY JOB\_ID;
19. SELECT COUNT(ID\_OF\_EMP),MONTH(HIREDATE) FROM EMPLOYEE GROUP BY MONTH(HIREDATE) ORDER BY COUNT(ID\_OF\_EMP);
20. SELECT COUNT(ID\_OF\_EMP),MONTH(HIREDATE),YEAR(HIREDATE) FROM EMPLOYEE GROUP BY MONTH(HIREDATE),YEAR(HIREDATE) ORDER BY COUNT(ID\_OF\_EMP);
21. SELECT DEPT\_ID,COUNT(ID\_OF\_EMP) FROM EMPLOYEE GROUP BY DEPT\_ID HAVING COUNT(ID\_OF\_EMP)>=4;
22. SELECT COUNT(ID\_OF\_EMP) FROM EMPLOYEE WHERE MONTH(HIREDATE)=02 GROUP BY MONTH(HIREDATE);
23. SELECT COUNT(ID\_OF\_EMP),MONTH(HIREDATE) FROM EMPLOYEE WHERE MONTH(HIREDATE) IN (02,06) GROUP BY MONTH(HIREDATE);
24. SELECT COUNT(ID\_OF\_EMP) FROM EMPLOYEE WHERE YEAR(HIREDATE)=1985 GROUP BY YEAR(HIREDATE);
25. SELECT COUNT(ID\_OF\_EMP),MONTH(HIREDATE) FROM EMPLOYEE WHERE YEAR(HIREDATE)=1985 GROUP BY YEAR(HIREDATE),MONTH(HIREDATE);
26. SELECT COUNT(ID\_OF\_EMP) FROM EMPLOYEE WHERE YEAR(HIREDATE)=1985 AND MONTH(HIREDATE)=03 GROUP BY YEAR(HIREDATE);