# Set: 1

**1. Create the Simple DEPARTMENT Table.**

CREATE TABLE dept1(  dept_no NUMBER(5), dept_name varchar(20), location varchar(10) );

**2. Display structure of department table.**

desc dept1;

TABLE DEPT1

| Column | Null? | Type |
|---|---|---|
| DEPT_NO | - | NUMBER(5,0) |
| DEPT_NAME | - | VARCHAR2(20) |
| LOCATION | - | VARCHAR2(10) |

**3. Insert below records into Department Table.**

```
INSERT INTO dept1 VALUES(10,'Account','NY');
INSERT INTO dept1 VALUES(20,'HR','NY');
INSERT INTO dept1 VALUES(30,'Production','DL');
INSERT INTO dept1 VALUES(40,'Sales','NY');
INSERT INTO dept1 VALUES(50,'EDP','MU');
INSERT INTO dept1 VALUES(60,'TRG','AH');
INSERT INTO dept1 VALUES(110,'RND','');
```

**4. Display all records of Department table.**

Select * from dept1;

| DEPT_NO | DEPT_NAME | LOCATION |
|---|---|---|
| 10 | Account | NY |
| 20 | HR | NY |
| 30 | Production | DL |
| 40 | Sales | NY |
| 50 | EDP | MU |
| 60 | TRG | AH |
| 110 | RND | - |

**5. Display all department belonging to location 'NY'.**

select * from dept1 WHERE location = 'NY' ;

| DEPT_NO | DEPT_NAME | LOCATION |
|---|---|---|
| 10 | Account | NY |
| 20 | HR | NY |
| 40 | Sales | NY |

**6. Display details of Department 10.**

select * from dept1 where dept_no = 10;

| DEPT_NO | DEPT_NAME | LOCATION |
|---|---|---|
| 10 | Account | NY |

**7. List all department names starting with 'A'.**

select * from dept1 where dept_name like ‘A%’;

| DEPT_NO | DEPT_NAME | LOCATION |
|---|---|---|
| 10 | Account | NY |

---

**8. List all departments whose number is between 1 and 100.**

select * from dept1 where dept_no between 1 and 100;

| DEPT_NO | DEPT_NAME | LOCATION |
|---|---|---|
| 10 | Account | NY |
| 20 | HR | NY |
| 30 | Production | DL |
| 40 | Sales | NY |
| 50 | EDP | MU |
| 60 | TRG | AH |

**9. Delete 'TRG' department.**

delete from dept1 where dept_name  = 'TRG';

**10. Change department name 'EDP' to 'IT’.**

update dept1 set dept_name = 'IT' where dept_name = 'EDP';

---

---

## SET: 2

**1. Create the EMP Table with all necessary constraints such as in EMP TABLE: Employee id should be primary key, Department no should be foreign key, employee age (birthdate) should be greater than 18 years, salary should be greater than zero, email should have (@ and dot) sign in address, designation of employee can be “manager”, “clerk”, “leader”, “analyst”, “designer”, “coder”, “tester”.**

```
CREATE TABLE EMPLOYEE1
(
empid int primary key,
emp_name varchar(50),
birth_date date,
gender varchar(10),
dept_no int,
address varchar(100),
designation varchar(15) check(designation IN ('manager', 'clerk', 'leader', 'analyst', 'designer', 'coder','tester')),
salary int check(salary > 0),
experience int,
email varchar(23) check(email like '%@%.%'),
constraint dept_no foreign key (dept_no) references DEPARTMENT (dept_no)
);
```

---

**2. Create DEPT table with neccessary constraint such as Department no should be primary key, department name should be unique.**

```
CREATE TABLE DEPARTMENT1
(
dept_no int primary key,
dept_name varchar(50) unique,
location varchar(15)
```

);

**4.After creation of above tables, modify Employee table by adding the constraints as**

**5. 'Male' or 'Female' in gender field and display the structure.**

alter table EMPLOYEE1 add constraints check_gender check(gender in ('Male','Female'));

**6. Insert proper data (at least 5 appropriate records) in all the tables.**

Employee1

- insert into employee1(empid, emp_name, birth_date, gender, dept_no, address, designation, salary,experience, email) values (1,'Raj','23-Jun-1999','Male',1010,'Sahara Darwaja','manager',48950,25,'rajpatel@gmail.com');
- insert into employee1(empid, emp_name, birth_date, gender, dept_no, address, designation, salary,experience, email) values (2,'Amit','23-Apr-1999','Male',2020,'Amroli','clerk',2800,15,'amitkumar@gmail.com');
- insert into employee1(empid, emp_name, birth_date, gender, dept_no, address, designation, salary,experience, email) values (3,'Jenisha','23-Mar-1998','Female',3030,'Gurugram','leader',4900,10,'jeishapatel@gmail.com');
- insert into employee1(empid, emp_name, birth_date, gender, dept_no, address, designation, salary,experience, email) values (4,'Samantha','23-Feb-1999','Female',4040,'Ring Road','analyst',15000,1,'samprabhu@gmail.com');
- insert into employee1(empid, emp_name, birth_date, gender, dept_no, address, designation, salary,experience, email) values (5,'Mukesh','23-Jan-1999','Male',5050,'Elish Bridge','tester',36200,18,'ambani@gmail.com');
- insert into employee1(empid, emp_name, birth_date, gender, dept_no, address, designation, salary,experience, email) values (6,'Vipul','23-Dec-1999','Male',6060,'Baben','coder',48950,25,'vipulshah@gmail.com');

Department1

- insert into department(dept_no,dept_name,locations) values (1010,'Sales','Surat');
- insert into department(dept_no,dept_name,locations) values (2020,'Devloping','Vapi');
- insert into department(dept_no,dept_name,locations) values (3030,'Designing','Vyara');
- insert into department(dept_no,dept_name,locations) values (4040,'Finance','Navsari');
- insert into department(dept_no,dept_name,locations) values (5050,'Marketing','Ahmedabad');
- insert into department(dept_no,dept_name,locations) values (6060,'IT','Bardoli');

**7. Describe the structure of table created**

desc EMPLOYEE1

TABLE EMPLOYEE1

| Column | Null? | Type |
|---|---|---|
| EMPID | NOT NULL | NUMBER |
| EMP_NAME | - | VARCHAR2(50) |
| BIRTH_DATE | - | VARCHAR2(15) |
| GENDER | - | VARCHAR2(10) |
| DEPT_NO | - | NUMBER |
| ADDRESS | - | VARCHAR2(100) |
| DESIGNATION | - | VARCHAR2(15) |
| SALARY | - | NUMBER |
| EXPERIENCE | - | NUMBER |
| EMAIL | - | VARCHAR2(23) |

Download CSV
10 rows selected.

desc DEPARTMENT

TABLE DEPARTMENT1

| Column | Null? | Type |
|---|---|---|
| DEPT_NO | NOT NULL | NUMBER |
| DEPT_NAME | - | VARCHAR2(50) |
| LOCATION | - | VARCHAR2(15) |

Download CSV
3 rows selected.

**8. List all records of each table in ascending order.**

Select * from employee1 order by empid;

| EMPID | EMP_NAME | BIRTH_DATE | GENDER | DEPT_NO | ADDRESS | DESIGNATION | SALARY | EXPERIENCE | EMAIL |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Raj | 23-Jun-1999 | Male | 1010 | Sahara Darwaja | manager | 48950 | 25 | rajpatel@gmail.com |
| 2 | Amit | 23-Apr-1999 | Male | 2020 | Amroli | clerk | 2800 | 15 | amitkumar@gmail.com |
| 3 | Jenisha | 23-Mar-1998 | Female | 3030 | Gurugram | leader | 4900 | 10 | jeishapatel@gmail.com |
| 4 | Samantha | 23-Feb-1999 | Female | 4040 | Ring Road | analyst | 15000 | 1 | samprabhu@gmail.com |
| 5 | Mukesh | 23-Jan-1999 | Male | 5050 | Elish Bridge | tester | 36200 | 18 | ambani@gmail.com |
| 6 | Vipul | 23-Dec-1999 | Male | 6060 | Baben | coder | 48950 | 25 | vipulshah@gmail.com |

Download CSV
6 rows selected.

Select * from department1 order by dept_no;

| DEPT_NO | DEPT_NAME | LOCATION |
|---|---|---|
| 1010 | Sales | Surat |
| 2020 | Devloping | Vapi |
| 3030 | Designing | Vyara |
| 4040 | Finance | Navsari |
| 5050 | Marketing | Ahmedabad |
| 6060 | IT | Bardoli |

Download CSV
6 rows selected.

**t whose location is Ahmedabad.**

Delete from department where location = ‘Ahmedabad’;

**10. Display the female employee list.**

Select * from employee1 where gender = ‘Female’;

| EMPID | EMP_NAME | BIRTH_DATE | GENDER | DEPT_NO | ADDRESS | DESIGNATION | SALARY | EXPERIENCE | EMAIL |
|---|---|---|---|---|---|---|---|---|---|
| 3 | Jenisha | 23-Mar-1998 | Female | 3030 | Gurugram | leader | 4900 | 10 | jeishapatel@gmail.com |
| 4 | Samantha | 23-Feb-1999 | Female | 4040 | Ring Road | analyst | 15000 | 1 | samprabhu@gmail.com |

Download CSV

2 rows selected

**11.Display the employee department wise.**

Select empid,emp_name,dept_no from employee order by dept_no;

| EMPID | EMP_NAME | DEPT_NO |
|---|---|---|
| 1 | Raj | 1010 |
| 2 | Amit | 2020 |
| 3 | Jenisha | 3030 |
| 4 | Samantha | 4040 |
| 5 | Mukesh | 5050 |
| 6 | Vipul | 6060 |

Download CSV

6 rows selected.

**12. Find the names of the employee who has salary less than 5000 and greater than 2000**

Select emp_name, salary from employee1 where salary < 5000 and salary > 2000;

| EMP_NAME | SALARY |
|---|---|
| Amit | 2800 |
| Jenisha | 4900 |

Download CSV

2 rows selected.

**13. Display the names and the designation of all female employee in descending order.**

SELECT EMP_NAME,DESIGNATION FROM EMPLOYEE1 WHERE GENDER IN('Female') order by emp_name

| EMP_NAME | DESIGNATION |
|---|---|
| Jenisha | leader |
| Samantha | analyst |

Download CSV

2 rows selected.

**14. Display the names of all the employees who names starts with ‘S’ ends with ‘a’.**

select emp_name As "Employee Name" from employee1 where emp_name LIKE('S%a')

| Employee Name |
|---|
| Samantha |

Download CSV

**15. Find the name of employee and salary for those who had obtain minimum salary.**

select emp_name,salary from employee1 where salary = (select min(salary) from employee1)

| EMP_NAME | SALARY |
|---|---|
| Amit | 2800 |

Download CSV

**16. Add 10% raise in salary of all employees whose department is ‘IT’.**

update employee set salary = (salary+(salary/10) where dept_no =(select dept_no from department where dept_name = 'IT');

---

**17. Count total number of employees of ‘IT’ department.**

```
select count(empid) as ‘Employee of IT Department’ from employee1 where dept_no =( select dept_no from department1 where dept_name = 'IT')
```

| Employee of IT Department |
|---|
| 1 |

Download CSV

---

**18. List all employees who born in the current month.**

```
Select * from employee1 where TO_CHAR(birth_date, 'MM') = TO_CHAR(CURRENT_DATE, 'MM');
```

| EMPID | EMP_NAME | GENDER | DEPT_NO | ADDRESS | DESIGNATION | SALARY | EXPERIENCE | EMAIL | BIRTH_DATE |
|---|---|---|---|---|---|---|---|---|---|
| 6 | Vipul | Male | 6060 | Baben | coder | 48950 | 25 | vipulshah@gmail.com | 23-DEC-99 |

Download CSV

---

**19. Print the record of employee and dept table as “Employee works in department ‘MBA’.**

select e.emp_name||' works in department '||d.dept_name as Records from employee1 e,department1 d where e.dept_no=d.dept_no;

| RECORDS |
|---|
| Raj works in department Sales |
| Amit works in department Devloping |
| Jenisha works in department Designing |
| Samantha works in department Finance |
| Mukesh works in department Marketing |
| Vipul works in department IT |

Download CSV

6 rows selected.

---

**20. List names of employees who are fresher’s (less than 1 year of experience)**

select emp_name, experience as "Experience Month Wise" from employee1 where experience < 12;

| EMP_NAME | Experience Month Wise |
|---|---|
| Jenisha | 10 |
| Samantha | 1 |

Download CSV

2 rows selected.

**21. Crete Sequence to generate department ID**

```
create sequence myseq

minvalue 1

maxvalue 1000

start with 1

increment by 1;
```

---

**22. List department wise names of employees who has more than 5 years of experience.**

```
select d.dept_name,e.emp_name,e.experience from department1 d,employee1 e where d.dept_no=e.dept_no and e.experience>=5;
```

| DEPT_NAME | EMP_NAME | EXPERIENCE |
|---|---|---|
| Sales | Raj | 25 |
| Devloping | Amit | 15 |
| Designing | Jenisha | 10 |
| Marketing | Mukesh | 18 |
| IT | Vipul | 25 |

Download CSV

5 rows selected.

---

**23. . List department having no employees**

```
select dept_name from department1 where dept_no not in(select dept_no from employee1);
```

| DEPT_NAME |
|---|
| Marketing |

Download CSV

---

## SET: 3

1. **Create the above three tables along with key constraints.**
   - Create table STUDENT(rollno int primary key, sname varchar(20),class varchar(20), birthdate date );
   - Create table COURSE(courseno int primary key, coursename varchar(22),max_marks int, pass_marks int);
   - Create table stdcourse

```
(
    rollno int,
    courseno int,
    marks int,
    constraints rollno foreign key(rollno) references student(rollno),
    constraints courseno foreign key(courseno) references COURSE(courseno)
);
```

---

2. **Write an Insert script for insertion of rows with substitution variables and insert appropriate data.**

**Student**

- insert into student(rollno, sname, class, birthdate) values (1,'Raj Patel','A','23-Jun-99')
- insert into student(rollno, sname, class, birthdate) values (2,'Sristi Patel','A','25-Apr-99')
- insert into student(rollno, sname, class, birthdate) values (3,'Smit Shah','B','10-Mar-01')
- insert into student(rollno, sname, class, birthdate) values (4,'Amit Singh','B','11-Feb-97')

- insert into student(rollno, sname, class, birthdate) values (5,'Pirjada Abarar','C','25-Dec-98')
- insert into student(rollno, sname, class, birthdate) values (6,'Naveen Panjala','D','16-Sep-00')
- insert into student(rollno, sname, class, birthdate) values (7,'Jenish Taniya','C','03-Jul-01')
- insert into student(rollno, sname, class, birthdate) values (8,'Ashita Patel','C','03-Aug-01')
- insert into student(rollno, sname, class, birthdate) values (9,'Dhriti Taniya','C','03-Feb-02')
- insert into student(rollno, sname, class, birthdate) values (10,'Sristi Avaiya','C','03-May-01')
- insert into student(rollno, sname, class, birthdate) values (11,'Vipul Patel','C','03-May-80')
- insert into student(rollno, sname, class, birthdate) values (12,'Sorathiya Sameer','C','03-May-82')

**Course**

- insert into course values(101,'python','100','36');
- insert into course values(102,'dbms','50','15');
- insert into course values(103,'com_network','70','26');
- insert into course values(104,'data_structure','60','36');
- insert into course values(105,'java','90','20');

**Stdcourse**

- insert into stdcourse(rollno, courseno, marks) values (1,101,76)
- insert into stdcourse(rollno, courseno, marks) values (1,102,86)
- insert into stdcourse(rollno, courseno, marks) values (2,103,36)
- insert into stdcourse(rollno, courseno, marks) values (3,104,56)
- insert into stdcourse(rollno, courseno, marks) values (4,105,56)
- insert into stdcourse(rollno, courseno, marks) values (5,101,40)
- insert into stdcourse(rollno, courseno, marks) values (6,102,20)
- insert into stdcourse(rollno, courseno, marks) values (7,103,96)
- insert into stdcourse(rollno, courseno, marks) values (8,104,56)
- insert into stdcourse(rollno, courseno, marks) values (9,105,86)
- insert into stdcourse(rollno, courseno, marks) values (10,101,66)

---

**3. Add a constraint that the marks entered should strictly be between 0 and 100.**

```
ALTER TABLE stdcourse
ADD CONSTRAINT marks check( marks > 0 AND marks < 100);
```

---

**4.While creating SC table, composite key constraint was forgotten. Add the composite keynow.**

```
ALTER TABLE stdcourse
ADD CONSTRAINT composite primary key(rollno,courseno);
```

---

**5.Display details of student who takes 'Database Management System' course.**

```
select * from student where rollno IN (select rollno from stdcourse where courseno = (select courseno from course where coursename = 'dbms') );
```

| ROLLNO | SNAME | CLASS | BIRTHDATE |
|---|---|---|---|
| 6 | Naveen Panjala | D | 16-SEP-00 |
| 1 | Raj Patel | A | 23-JUN-99 |

Download CSV
2 rows selected.

---

**6. Display the names of students who have scored more than 70% in Computer Networksand have not failed in any subject.**

```
select stdcourse.rollno, coursename, student.sname from course,stdcourse,student
where stdcourse.courseno = course.courseno and marks > 70 and coursename='com_network' and
stdcourse.rollno not in
 (select rollno from stdcourse, course where marks < course.pass_marks)
 and student.rollno= stdcourse.rollno order by rollno;
```

| ROLLNO | COURSENAME | SNAME |
|---|---|---|
| 7 | com_network | Jenish Taniya |

Download CSV

**7.Display the average marks obtained by each student.**

select student.sname , AVG(stdcourse.marks) from student , stdcourse where student.rollno = stdcourse.rollno group by student.sname

| SNAME | AVG(STDCOURSE.MARKS) |
|---|---|
| Sristi Patel | 36 |
| Smit Shah | 56 |
| Pirjada Abarar | 40 |
| Sristi Avaiya | 66 |
| Amit Singh | 56 |
| Dhriti Taniya | 86 |
| Jenish Taniya | 96 |
| Raj Patel | 86 |
| Naveen Panjala | 20 |
| Ashita Patel | 56 |

Download CSV
10 rows selected.

---

**8.Select all courses where passing marks are more than 30% of average maximum mark.**

select * from course where pass_marks > 30 * (select avg(max_marks) from course)/100;

| COURSENO | COURSENAME | MAX_MARKS | PASS_MARKS |
|---|---|---|---|
| 101 | python | 100 | 36 |
| 103 | com_network | 70 | 26 |
| 104 | data_structure | 60 | 36 |

Download CSV
3 rows selected.

---

**9.Displaydetails of students who arebornin 1980 or 1982.**

select * from student where EXTRACT(Year FROM birthdate) = 1982 or EXTRACT(Year FROM birthdate) = 1980;

| ROLLNO | SNAME | CLASS | BIRTHDATE |
|---|---|---|---|
| 11 | Vipul Patel | C | 03-MAY-80 |
| 12 | Sorathiya Sameer | C | 03-MAY-82 |

Download CSV
2 rows selected.

---

**10.Create a view that displays student courseno and its corresponding marks**

```
create view student_view as
select c.courseno,c.coursename,s.marks from course c,stdcourse s where c.courseno = s.courseno;
```

---

## SET: 4

- **Department Table**

```
Create table DEPARTMENT
(
dept_no int primary key,
dept_name varchar(20),
total_employees int,
location varchar(20)
)
```

- insert into DEPARTMENT values( 101,'MCA',10,'Surat');
- insert into department values(102,'CE',15,'Navsari');
- insert into department values(103,'CIVIL',20,'Daman');
- insert into department values(104,'ELECTRICAL',25,'Silvasa');
- insert into department values(105,'AUTOMOBILE',5,'Vapi');
- insert into department values(106,'IT',0,'PUNE');

- **Employee Table**

```
CREATE table EMPLOYEE
(
emp_id int primary key,
emp_name varchar(20),
birth_date date,
gender varchar(10) check(gender IN ('OTHER', 'Other', 'FEMALE', 'Female', 'male','MALE')),
dept_no int,
address varchar(50),
designation varchar(20),
salary int,
experience float,
email varchar(30) check(email like '%@%.%'),
constraint dept_no foreign key (dept_no) references DEPARTMENT (dept_no)
)
```

- insert into EMPLOYEE values(1,'Raj','23-june-1999','male',101,'Surat','Manager',15600,3,'rpatel@gmail.com');
- insert into EMPLOYEE values(2,'Amisha','13-july-1998','Female',101,'Vapi','CEO',35600,1.2,'apatel@gmail.com');
- insert into EMPLOYEE values(3,'Naveen','3-june-1990','male',101,'Daman','MD',45600,0.2,'npatel@gmail.com');
- insert into EMPLOYEE values(4,'Jenish','1-may-1989','male',101,'Valsad','AD',5600,1.9,'jpatel@gmail.com');
- insert into EMPLOYEE values(5,'Smit','25-aug-1982','male',101,'Silvasa','Developer',35600,5.5,'spatel@gmail.com');
- insert into EMPLOYEE values(6,'Shyam','23-june-1999','male',102,'Surat','Manager',11600,1,'rpatel@gmail.com');
- insert into EMPLOYEE values(7,'Chanchal','13-july-1998','Female',102,'Vapi','CEO',36600,2.2,'apatel@gmail.com');
- insert into EMPLOYEE values(8,'Tanu','3-june-1990','Female',102,'Daman','MD',25600,3.2,'npatel@gmail.com');
- insert into EMPLOYEE values(9,'Mukesh','1-may-1989','male',102,'Valsad','AD',20300,4.9,'jpatel@gmail.com');
- insert into EMPLOYEE values(10,'Parth','25-aug-1982','male',102,'Silvasa','Developer',10600,10.5,'spatel@gmail.com');
- insert into EMPLOYEE values(11,'Ghanshyam','23-june-1999','male',102,'Surat','Manager',22600,1,'rpatel@gmail.com');
- insert into EMPLOYEE values(12,'Era','13-july-1998','Female',102,'Vapi','CEO',23600,2.2,'apatel@gmail.com');
- insert into EMPLOYEE values(13,'Radha','3-june-1990','Female',102,'Daman','MD',19600,3.2,'npatel@gmail.com');
- insert into EMPLOYEE values(14,'Amish','1-may-1989','male',103,'Valsad','AD',50360,4.9,'jpatel@gmail.com');
- insert into EMPLOYEE values(15,'Pinkesh','25-aug-1982','male',103,'Silvasa','Developer',95600,10.5,'spatel@gmail.com');
- insert into EMPLOYEE values(16,'Hiren','23-june-1999','male',104,'Surat','Manager',55600,1,'rpatel@gmail.com');
- insert into EMPLOYEE values(17,'Sonalika','13-july-1998','Female',104,'Vapi','CEO',65600,2.2,'apatel@gmail.com');
- insert into EMPLOYEE values(18,'Mahi','3-june-1990','Female',104,'Daman','MD',85600,3.2,'npatel@gmail.com');

- insert into EMPLOYEE values(19,'Pinku','1-may-1989','male',104,'Valsad','AD',12600,4.9,'jpatel@gmail.com');
- insert into EMPLOYEE values(20,'Gogi','25-aug-1982','male',105,'Silvasa','Developer',18600,10.5,'spatel@gmail.com');

➢ **Project Table**

```
Create table PROJECT
(
proj_id int,
type_of_project varchar(20),
status varchar(20),
start_date date,
constraint emp_id foreign key (emp_id) references EMPLOYEE(emp_id)
);
```

- insert into Project values(1001,'On Site','Pending','23-Oct-2020',1);
- insert into Project values(1002,'At Office','IN Proccess','23-Nov-2018',2);
- insert into Project values(1003,'On Site','Complated','23-Jan-2021',3);
- insert into Project values(1004,'At Office','Debuging','23-Mar-2015',4);
- insert into Project values(1001,'On Site','Pending','23-Oct-2020',5);
- insert into Project values(1002,'At Office','IN Proccess','23-Nov-2018',6);
- insert into Project values(1003,'On Site','Complated','23-Jan-2021',7);
- insert into Project values(1004,'At Office','Debuging','23-Mar-2015',8);
- insert into Project values(1001,'On Site','Pending','23OctDec-2020',9);
- insert into Project values(1002,'At Office','IN Proccess','23-Nov-2018',10);
- insert into Project values(1003,'On Site','Complated','23-Jan-2021',11);
- insert into Project values(1004,'At Office','Debuging','23-Mar-2015',12);
- insert into Project values(1001,'On Site','Pending','23-Oct-2020',13);
- insert into Project values(1002,'At Office','IN Proccess','23-Nov-2018',14);
- insert into Project values(1003,'On Site','Complated','23-Jan-2021',15);
- insert into Project values(1004,'At Office','Debuging','23-Mar-2015',16);
- insert into Project values(1001,'On Site','Pending','23-Oct-2020',17);
- insert into Project values(1002,'At Office','IN Proccess','23-Nov-2018',18);
- insert into Project values(1003,'On Site','Complated','23-Jan-2021',19);
- insert into Project values(1004,'At Office','Debuging','23-Mar-2015',20);

---

**1. Delete the department whose total number of employees less than 1.**

```
delete from department where total_employees < 1;
```

---

**2. Display the names and the designation of all female employee in descending order.**

```
select emp_name ,designation from employee where gender = 'Female' order by emp_name DESC;
```

| EMP_NAME | DESIGNATION |
|---|---|
| Tanu | MD |
| Sonalika | CEO |
| Radha | MD |
| Mahi | MD |
| Era | CEO |
| Chanchal | CEO |
| Amisha | CEO |

Download CSV

**3.Display the names of all the employees who names starts with ‘A’ ends with ‘A’.**

select emp_name from employee where emp_name like 'A%a';

| EMP_NAME |
|---|
| Amisha |

Download CSV

---

**4.Find the name of employee and salary for those who had obtain minimum salary.**

select emp_name,salary from employee where salary in(select  min(salary)from employee group by dept_no);

| EMP_NAME | SALARY |
|---|---|
| Jenish | 5600 |
| Parth | 10600 |
| Amish | 50360 |
| Pinku | 12600 |
| Gogi | 18600 |

Download CSV

5 rows selected.

---

**5.Count total number of employees of ‘MCA’ department.**

select dept_name,total_employees from department where dept_name = 'MCA';

| DEPT_NAME | TOTAL_EMPLOYEES |
|---|---|
| MCA | 10 |

Download CSV

---

**6.Add 10% raise in salary of all employees whose department is ‘CIVIL’**

update employee set salary = salary +(( salary /100)*10) where dept_no = (select dept_no from department where dept_name = 'CIVIL')

---

**7. List all employees who born in the current month.**

select * from employee where extract(month from birth_date ) = (SELECT TO_CHAR (SYSDATE, 'MM') FROM DUAL );

| EMP_ID | EMP_NAME | BIRTH_DATE | GENDER | DEPT_NO | ADDRESS | DESIGNATION | SALARY | EXPERIENCE | EMAIL |
|---|---|---|---|---|---|---|---|---|---|
| 19 | Pinku | 25-DEC-90 | male | 104 | Valsad | AD | 12600 | 4.9 | jpatel@gmail.com |
| 20 | Gogi | 31-DEC-98 | male | 105 | Silvasa | Developer | 18600 | 10.5 | spatel@gmail.com |

Download CSV

---

**8. Print the record of employee and dept table as “Employee works in department ‘CE’.**

select emp.emp_name,emp.dept_no,dept.dept_name from employee emp,department dept where dept.dept_no = emp.dept_no and dept.DEPT_NAME = 'CE';

| EMP_NAME | DEPT_NO | DEPT_NAME |
|---|---|---|
| Shyam | 102 | CE |
| Chanchal | 102 | CE |
| Tanu | 102 | CE |
| Mukesh | 102 | CE |
| Parth | 102 | CE |
| Ghanshyam | 102 | CE |
| Era | 102 | CE |
| Radha | 102 | CE |

**9. List names of employees who are fresher's(less than 1 year of experience).**

select emp_name, EXPERIENCE from employee where EXPERIENCE <= 1;

| EMP_NAME | EXPERIENCE |
|---|---|
| Naveen | .2 |
| Shyam | 1 |
| Ghanshyam | 1 |
| Hiren | 1 |

Download CSV

4 rows selected.

---

**10.List department wise names of employees who has more than 5 years of experience.**

select emp.emp_name, dept.dept_name,emp.experience from employee emp,department dept where dept.dept_no = emp.dept_no and emp.experience > 5;

| EMP_NAME | DEPT_NAME | EXPERIENCE |
|---|---|---|
| Smit | MCA | 5.5 |
| Parth | CE | 10.5 |
| Pinkesh | CIVIL | 10.5 |
| Gogi | AUTOMOBILE | 10.5 |

Download CSV

4 rows selected.

---

## SET : 5

- Hostel

```
CREATE TABLE hostel(
hno number(5)primary key,
hname varchar(30)unique,
haddr varchar(50),
total_capacity number(5),
warden varchar(20));
```

- Room

```
CREATE TABLE room(
hno number(5)references hostel(hno),
rno number(5)primary key,
rtype varchar(30) not null,
location varchar(50),
no_of_student number(5) CHECK (no_of_student >= 0), status varchar(50));
```

- Charges

```
CREATE TABLE charges(
hno number(5)references hostel(hno),
rtype varchar(30),
charges number(10));
```

- Student

```
CREATE TABLE student(
sid number(5)primary key,
sname varchar(20) not null,
mobile number(10),
gender varchar(15) CHECK (gender in('male','female')),
faculty varchar(30),
dept varchar(30),
class varchar(20),
hno number(5) references hostel(hno),
rno number(5) references room(rno));
```

- Fees

```
Create table fees(
sid number(5)references student(sid),
fdate date not null,
famount number(10) CHECK (famount > 0));
```

**Hostel**

- insert into hostel values(101,'Suman Nivas','ADAJAN',25,'Jamandas Ghariwala');
- insert into hostel values(102,'Chhagan Nivas','Rander',50,'Ramaniklal Chunawala');
- insert into hostel values(103,'Magan Nivas','CityLight',75,'Chunilal Gajiwala');
- insert into hostel values(104,'Gagan Nivas','Parle Point',100,'Chhabildas Gheewala');
- insert into hostel values(105,'Jagat Nivas','Athwa Lines',120,'ChimanLal Jariwala');

**Room**

- insert into room values (101,'0001','single seated','surat',3,'vacant');
- insert into room values (102,'0002','double seated','vapi',3,'occupied');
- insert into room values (103,'0003','single seated','navsari',1,'vacant');
- insert into room values (104,'0004','double seated','ankleshwar',4,'occupied');
- insert into room values (105,'0005','single seated','bilimora',2,'vacant');
- insert into room values (103,'0006','single seated','navsari',1,'vacant');
- insert into room values (102,'0007','double seated','vapi',3,'vacant');
- insert into room values (103,'0008','double seated','navsari',2,'vacant');
- insert into room values (104,'0009','single seated','ankleshwar',1,'vacant');
- insert into room values (103,'00010','double seated','navsari',2,'vacant');

**charges**

- insert into charges values (101,'single seated',1000);
- insert into charges values (101,'double seated',2000);
- insert into charges values (102,'single seated',2000);
- insert into charges values (102,'double seated',2000);
- insert into charges values (103,'single seated',2000);
- insert into charges values (103,'double seated',2000);
- insert into charges values (104,'single seated',1000);
- insert into charges values (104,'double seated',2000);
- insert into charges values (105,'single seated',1000);
- insert into charges values (105,'double seated',2000);

**Student**

- insert into std values(1,'Tapu Jethalal Gada',9913652920,'male','Jethalal Gadda','Medical','FY',101,0001);
- insert into std values(2,'Sonu Atmaram Bhide',8779654776,'female','Madhavi Atmaram Bhide','Nursing','SY',102,0002);
- insert into std values(3,'Goli Hanshraj Hathi',9879952932,'male','Anjali Tarak Mehta','Enginnering','TY',103,0003);
- insert into std values(4,'Gogi Sodhi',7679654706,'male','Komal Hathi','Medical','SY',104,0004);
- insert into std values(5,'Pinku',4579855678,'male','Roshan Sodhi','Commarce','TY',105,0005);
- insert into std values(6,'Daya Jethalal Gadda',9878954707,'female','Jethalal Gadda','IT','SY',101,0001);
- insert into std values(7,'Babita Iyer',9878854707,'female','Madhavi Atmaram Bhide','Chemical','FY',102,0002);
- insert into std values(8,'Popatlal Pande',9913652963,'female','Anjali Tarak Mehta','Software','SY',103,0003);
- insert into std values(9,'Krishanan Iyet',9879857899,'male','Madhavi Atmaram Bhide','Ehemestry','TY',102,0002);
- insert into std values(10,'Tarak Mehta',786754667,'male','Komal Hathi','Engineering','FY',104,0004);

**Fees**

- insert into fees values (1,'05-jul-2020',15000);
- insert into fees values (2,'05-jul-2020',25000);
- insert into fees values (3,'03-aug-2020',25000);
- insert into fees values (4,'03-aug-2020',20000);

- insert into fees values (5,'10-jul-2020',13000);
- insert into fees values (6,'10-aug-2020',25000);
- insert into fees values (7,'21-jul-2020',20000);
- insert into fees values (8,'20-aug-2020',49000);
- insert into fees values (9,'01-aug-2020',23000);
- insert into fees values (01,'05-sep-2020',29000);

**1.Display the total number of rooms that are presently vacant. Ans.**

select count(*)As Total_Vacant_Room from room where status = 'vacant';

| TOTAL_VACANT_ROOM |
|---|
| 8 |

---

**2.Display number of students of each faculty and department wise staying in each hostel.**

select room.no_of_student,room.hno,student.faculty,student.dept from room, student where student.hno=room.hno and student.rno=room.rno;

| NO_OF_STUDENT | HNO | FACULTY | DEPT |
|---|---|---|---|
| 4 | 104 | Komal Hathi | Medical |
| 3 | 101 | Jethalal Gadda | Medical |
| 3 | 102 | Madhavi Atmaram Bhide | Nursing |
| 1 | 103 | Anjali Tarak Mehta | Enginnering |
| 2 | 105 | Roshan Sodhi | Commarce |
| 3 | 101 | Jethalal Gadda | IT |
| 3 | 102 | Madhavi Atmaram Bhide | Chemical |
| 1 | 103 | Anjali Tarak Mehta | Software |
| 3 | 102 | Madhavi Atmaram Bhide | Ehemestry |
| 4 | 104 | Komal Hathi | Engineering |

Download CSV

10 rows selected.

---

**3. Display hostels, which have at least one single-seated room.**

select h.hno,h.hname,r.rtype from hostel h,room r where h.hno = r.hno and r.rtype = 'single seated';

| HNO | HNAME | RTYPE |
|---|---|---|
| 101 | Suman Nivas | single seated |
| 103 | Magan Nivas | single seated |
| 105 | Jagat Nivas | single seated |
| 103 | Magan Nivas | single seated |
| 104 | Gagan Nivas | single seated |

Download CSV

5 rows selected.

---

**4.Display the warden name and hostel address of students of Computer Science department.**

select h.warden,h.haddr from hostel h,student s where s.dept='computer science' and s.hno = h.hno;

| WARDEN | HADDR |
|---|---|
| Ramaniklal Chunawala | Rander |

Download CSV

**5.Display those hostel details where single seated or double-seated rooms are vacant.**

select h.hno,h.hname,r.rno,r.rtype,r.status from hostel h,room r where (r.rtype='single seated' or r.rtype='double seated') and r.status = 'vacant' and h.hno=r.hno;

| HNO | HNAME | RNO | RTYPE | STATUS |
|---|---|---|---|---|
| 101 | Suman Nivas | 1 | single seated | vacant |
| 103 | Magan Nivas | 3 | single seated | vacant |
| 105 | Jagat Nivas | 5 | single seated | vacant |
| 103 | Magan Nivas | 6 | single seated | vacant |
| 102 | Chhagan Nivas | 7 | double seated | vacant |
| 103 | Magan Nivas | 8 | double seated | vacant |
| 104 | Gagan Nivas | 9 | single seated | vacant |
| 103 | Magan Nivas | 10 | double seated | vacant |

---

**6. Display details of hostels occupied by medical students.**

select h.hno,h.hname,h.haddr,h.total_capacity,h.warden from hostel h,student s where s.dept='medical' and s.hno=h.hno;

| HNO | HNAME | HADDR | TOTAL_CAPACITY | WARDEN |
|---|---|---|---|---|
| 104 | Gagan Nivas | Parle Point | 100 | Chhabildas Gheewala |
| 101 | Suman Nivas | ADAJAN | 25 | Jamandas Ghariwala |

Download CSV
2 rows selected.

---

**8.List details about students who are staying in the double-seated rooms of Chanakya Hostel.**

select s.sid,s.sname,s.mobile,s.gender,s.faculty,s.dept from student s,room r,hostel h where r.rtype='double seated' and h.hname='chanakya' and s.rno = r.rno and r.hno = h.hno;

| SID | SNAME | MOBILE | GENDER | FACULTY | DEPT |
|---|---|---|---|---|---|
| 2 | Sonu Atmaram Bhide | 8779654776 | female | Madhavi Atmaram Bhide | computer science |
| 7 | Babita Iyer | 9878854707 | female | Madhavi Atmaram Bhide | Chemical |
| 9 | Krishanan Iyet | 9879857899 | male | Madhavi Atmaram Bhide | Ehemestry |

Download CSV
3 rows selected.

---

**9.Display the total number of students staying in each room type of each hostel.**

select s.hno,s.rno,count(sid)as Total_Students from student s, hostel h where h.hno=s.hno group by s.hno,s.rno;

| HNO | RNO | TOTAL_STUDENTS |
|---|---|---|
| 101 | 1 | 2 |
| 104 | 4 | 2 |
| 103 | 3 | 2 |
| 102 | 2 | 3 |
| 105 | 5 | 1 |

---

**12. Display hostel details where there are at least 10 vacant rooms.**

select hno,hname,Warden from hostel where hno in (select hno from room group by hno having count(status)>=3);

| HNO | HNAME | WARDEN |
|---|---|---|
| 103 | Magan Nivas | Chunilal Gajiwala |

Download CSV

---

**13.Display details of students who have still not paid fees.**

select sid,sname from student where sid not in (select sid from fees);

| SID | SNAME |
|---|---|
| 10 | Tarak Mehta |

Download CSV

**14.Display those hostels where single-seated room is the costliest.**

select h.hname,c.charges from hostel h,charges c where c.charges = (select max(charges) from charges) and h.hno=c.hno and c.rtype = 'single seated';

| HNAME | CHARGES |
|---|---|
| Chhagan Nivas | 2000 |
| Magan Nivas | 2000 |

Download CSV

2 rows selected.

---

## SET 6

- Doctor

```
CREATE TABLE doctor(
dno number(5)primary key,dname varchar(50),
spec varchar(50),clinic_add varchar(100));
```

- Medicine

```
CREATE TABLE medicine(
mno number(5)primary key,mname varchar(50),
type varchar(50),content varchar(50),manufac date);
```

- Disease

```
CREATE TABLE disease(dname varchar(50),
symptom1 varchar(50),symptom2 varchar(50),
symptom3 varchar(50));
```

- Treatment

```
CREATE TABLE treatment(tno number(5)primary key,
 dno number(5) references doctor(dno),
 dname varchar(50),mno number(5) references medicine(mno),
 dosage number(5), avg_cure_time varchar(50));
```

**Doctor:**

- insert into doctor values(1,'Dr.urvisha','aye spaci.','surat');
- insert into doctor values(2,'Dr.Mohan misrtry','sarjan','vadodra');
- insert into doctor values(3,'Dr.Ankush shah','legs spaci.','vapi');
- insert into doctor values(4,'Dr.Akash vyas','bone spaci.','chennai');
- insert into doctor values(5,'Dr.dilip kyara','skin spaci.','ankleshwar');
- insert into doctor values(6,'Dr.shah','nuro serjan','mumbai');

**Medicine**

- insert into medicine values(10,'dolo','painkiler','low power','21-jun-2021');
- insert into medicine values(20,'dristic','fear','paracitemol','10-mar-2021');
- insert into medicine values(30,'italic','deises','aisid','10-july-2021');
- insert into medicine values(40,'trident','cold','clorin','08-oct-2021');

- insert into medicine values(50,'aciin’','mantality','frit','14-nov-2021');

**Disease**

- insert into disease values('polio','cold','fever','cough');
- insert into disease values('migraines','mind blind','low energy','-');
- insert into disease values('corona','cold','fever','low energy');
- insert into disease values('meleriya','body pain','fever','low energy');
- insert into disease values('cold fever','cold','fever','hotness');
- insert into disease values('Cancer','Vommiting','Blood Loss','reaction on body');

**Treatment**

- insert into treatment values(1,1,'migraines',20,9,'4 days');
- insert into treatment values(2,2,'cold fever',50,5,'daily');
- insert into treatment values(3,4,'cancer',10,10,'1 year');
- insert into treatment values(4,3,'corona',50,3,'14 days');
- insert into treatment values(5,5,'polio',40,1,'15 days');
- insert into treatment values(6,6,'cold fever',10,3,'12 days');
- insert into treatment values(7,4,'polio',30,2,'7 day');
- insert into treatment values(8,6,'meleriya',40,4,'2 week');
- insert into treatment values(9,6,'liver',50,10,'2 month');

**1.Display records of each table in ascending order. Ans.**

select * from doctor order by dno asc;

| DNO | DNAME | SPEC | CLINIC_ADD |
|---|---|---|---|
| 1 | Dr.urvisha | aye spaci. | surat |
| 2 | Dr.Mohan misrtry | sarjan | vadodra |
| 3 | Dr.Ankush shah | legs spaci. | vapi |
| 4 | Dr.Akash vyas | bone spaci. | chennai |
| 5 | Dr.dilip kyara | skin spaci. | ankleshwar |
| 6 | Dr.shah | nuro serjan | mumbai |

select * from medicine order by mno asc;

| MNO | MNAME | TYPE | CONTENT | MANUFAC |
|---|---|---|---|---|
| 10 | dolo | painkiler | low power | 21-JUN-21 |
| 20 | dristic | fear | paracitemol | 10-MAR-21 |
| 30 | italic | deises | aisid | 10-JUL-21 |
| 40 | trident | cold | clorin | 08-OCT-21 |
| 50 | aciin’ | mantality | frit | 14-NOV-21 |

select * from disease order by dname asc;

| DNAME | SYMPTOM1 | SYMPTOM2 | SYMPTOM3 |
|---|---|---|---|
| Cancer | Vommiting | Blood Loss | reaction on body |
| cold fever | cold | fever | hotness |
| corona | cold | fever | low energy |
| meleriya | body pain | fever | low energy |
| migraines | mind blind | low energy | - |
| polio | cold | fever | cough |

select * from treatment order by tno asc;

| TNO | DNO | DNAME | MNO | DOSAGE | AVG_CURE_TIME |
|---|---|---|---|---|---|
| 1 | 1 | migraines | 20 | 9 | 4 days |
| 2 | 2 | cold fever | 50 | 5 | daily |
| 3 | 4 | cancer | 10 | 10 | 1 year |
| 4 | 3 | corona | 50 | 3 | 14 days |
| 5 | 5 | polio | 40 | 1 | 15 days |
| 6 | 6 | cold fever | 10 | 3 | 12 days |
| 7 | 4 | polio | 30 | 2 | 7 day |
| 8 | 6 | meleriya | 40 | 4 | 2 week |
| 9 | 6 | liver | 50 | 10 | 2 month |

---

**2.Count total number of doctors which has not given any treatment.**

select count(*)as No_OF_DR_Not_Treatment from doctor where dno not in (select dno from treatment);

| NO_OF_DR_NOT_TREATMENT |
|---|
| 0 |

**3. Display all Chennai doctors who treat cancer.**

select d.dno,d.dname,t.dname from doctor d,treatment t where t.dname = 'cancer' and clinic_add = 'chennai';

| DNO | DNAME | DNAME |
|---|---|---|
| 4 | Dr.Akash vyas | cancer |

**4.Remove disease "polio" from disease table as well as treatment table. Ans.**

delete from disease where dname = 'polio';

**5.Delete all those treatment related to liver of Dr.Shah.**

delete from treatment where dno = (select dno from doctor where dname = 'Dr.shah') and dname = 'liver';

**6.Create index on dno, Disease name in the treatment table. Ans.**

CREATE INDEX id on treatment (dno,dname);

**7. Display details of doctors who treat migraines.**

select * from doctor where dno in (select dno from treatment t,disease d where t.dname = 'migraines' and d.dname = 'migraines');

| DNO | DNAME | SPEC | CLINIC_ADD |
|---|---|---|---|
| 1 | Dr.urvisha | aye spaci. | surat |

**8.What is the maximum dosage of "penicillin" prescribe by the doctor for the treatment of any disease?**

select max(dosage)as Maximum_dosage from treatment where mno in (select mno from medicine where mname = 'penicillin');

| MAXIMUM_DOSAGE |
|---|
| 5 |

**9. Display total number of disease treated by every doctor.**

select dno,count(dname)as No_Of_Disease from treatment group by dno;

| DNO | NO_OF_DISEASE |
|---|---|
| 6 | 2 |
| 1 | 1 |
| 2 | 1 |
| 4 | 2 |
| 5 | 1 |
| 3 | 1 |

**10.Which doctor have no treatment for "depression"?**

select * from doctor where dno not in (select dno from treatment where dname = 'depression');

| DNO | DNAME | SPEC | CLINIC_ADD |
|---|---|---|---|
| 1 | Dr.urvisha | aye spaci. | surat |
| 2 | Dr.Mohan misrtry | sarjan | vadodra |
| 3 | Dr.Ankush shah | legs spaci. | vapi |
| 5 | Dr.dilip kyara | skin spaci. | ankleshwar |
| 6 | Dr.shah | nuro serjan | mumbai |
| 4 | Dr.Akash vyas | bone spaci. | chennai |

**11.Create a view which contains the treatment and doctors details. Make sure that no body is allowed to modify any detail in the view.**

CREATE OR REPLACE VIEW doctor_view as select d.*,t.dno,t.dname,t.mno from doctor d,treatment t where d.dno = t.dno;

## SET: 7

```
CREATE TABLE customer(
  cno number(5)primary key,
  cname varchar(20) Not Null,
  cphone number(10),
  loc varchar(50),
  gender varchar(20) CHECK (gender in ('male','female'))
);
```

- insert into customer values (1,'rakesh', 9909384018,'katargam','male');
- insert into customer values (2,'miten', 9879323997,'amroli','male');
- insert into customer values (3,'ganga', 908185293,'ved','female');
- insert into customer values (4,'miral', 9879952932,'varacha','female');
- insert into customer values (5,'sakshi', 9913652963,'katargam','female');

```
CREATE TABLE item(
  ino number(5)primary key,
  iname varchar(30) Not Null,
  color varchar(20),
  weight number(5),
  expire_date date Not Null,
  price number(10,2) CHECK (price > 0),
  shop_name varchar(30)Not Null);
```

- insert into item values (101,'fan','black',5,'30-dec-2022',1500,'vihar shop');
- insert into item values (102,'fruit','red',2,'03-jun-2021',150,'collection shop');
- insert into item values (103,'pendrive','silver',1,'10-jan-2023',5000,'driven shop');
- insert into item values (104,'laptop','white',10,'21-nov-2025',51000,'amazon shop');
- insert into item values (105,'printer','gray',15,'18-march-2030',150000,'croma shop');

```
CREATE TABLE cust_item(
  cno number(5) references customer(cno) ON DELETE CASCADE,
  ino number(5) references item(ino) ON DELETE CASCADE,
  qty_p number(5),
  date_p date
);
```

- insert into cust_item values (1,101,5,'15-oct-2021');
- insert into cust_item values (3,105,2,'01-dec-2021');
- insert into cust_item values (5,102,10,'20-nov-2021');
- insert into cust_item values (2,103,2,'10-oct-2021');
- insert into cust_item values (4,104,1,'23-july-2021');

---

**1.Delete the items whose price is more than 50000.**

```
delete from item where price > 50000;
```

**2.Find the names of the customer who is located in same location as that of other customer.**

select loc,count(loc) from customer group by loc having count(loc) > 1;

| LOC | COUNT(LOC) |
|---|---|
| katargam | 2 |

---

**3.Display the names of items which is black, white & brown in color.**

select * from item where color in ('black','white','brown');

| INO | INAME | COLOR | WEIGHT | EXPIRE_DATE | PRICE | SHOP_NAME |
|---|---|---|---|---|---|---|
| 101 | fan | black | 5 | 30-DEC-22 | 1500 | vihar shop |

---

**4.Display the names of all the items whose names lies between 'p' and's'.**

select * from item where iname BETWEEN 'p' and 's';

| INO | INAME | COLOR | WEIGHT | EXPIRE_DATE | PRICE | SHOP_NAME |
|---|---|---|---|---|---|---|
| 103 | pendrive | silver | 1 | 10-JAN-23 | 5000 | driven shop |

---

**5. Find the item which is having less weight.**

select ino,iname,price,shop_name,weight from item where weight = (select min(weight) from item);

| INO | INAME | PRICE | SHOP_NAME | WEIGHT |
|---|---|---|---|---|
| 103 | pendrive | 5000 | driven shop | 1 |

---

**6.Add one month more to those items whose item no =40. Ans.**

select ADD_MONTHS(expire_date,1) from item where ino = 104;

---

**7.Count total number of items which is going to expire in next month.**

select count(*) from item where to_char(expire_date,'MM') =
to_char(ADD_MONTHS(CURRENT_DATE,1),'MM');

| COUNT(*) |
|---|
| 1 |

---

**8.List all customers whose phone number starts with '99'.**

select * from customer where cphone LIKE '99%';

| CNO | CNAME | CPHONE | LOC | GENDER |
|---|---|---|---|---|
| 1 | rakesh | 9909384018 | katargam | male |
| 5 | sakshi | 9913652963 | katargam | female |

---

**9. Display total value (qty*price) for all items.**

select i.iname,(ci.qty_p * i.price) as value from item i,cust_item ci where i.ino = ci.ino;

| INAME | VALUE |
|---|---|
| fan | 7500 |
| fruit | 1500 |
| pendrive | 10000 |

**10. List customer details who has purchased maximum number of items**

select cno,cname from customer where cno = (select cno from cust_item where qty_p = (select max(qty_p) from cust_item));

| CNO | CNAME |
|---|---|
| 5 | sakshi |

---

**11. Display total price item wise.**

select iname,sum(price) from item group by iname;

| INAME | SUM(PRICE) |
|---|---|
| fruit | 150 |
| pendrive | 5000 |
| fan | 1500 |

---

**12. List name of items, customer details and qty purchased.**

select i.ino,i.iname,c.cno,c.cname,c.cphone,c.loc,c.gender,ci.qty_p from cust_item ci,customer c,item i where i.ino=ci.ino and c.cno=ci.cno;

| INO | INAME | CNO | CNAME | CPHONE | LOC | GENDER | QTY_P |
|---|---|---|---|---|---|---|---|
| 101 | fan | 1 | rakesh | 9909384018 | katargam | male | 5 |
| 102 | fruit | 5 | sakshi | 9913652963 | katargam | female | 10 |
| 103 | pendrive | 2 | miten | 9879323997 | amroli | male | 2 |

---

## SET 8

- Screen

```
CREATE TABLE screen (
sid varchar(10) primary key,
location varchar(20) Not Null CHECK(location in('FF','SF','TF')),
seating_capnumber(10));
```

- insert into screen values ('S1','FF',200);
- insert into screen values ('S2','SF',150);
- insert into screen values ('S3','FF',100);
- insert into screen values ('S4','TF',180);
- insert into screen values ('S5','SF',120);

- Movie

```
CREATE TABLE movie (
mid number(5) primary key,
mname varchar(50),
date_of_rel date);
```

- insert into movie values ('101','Star wars III','12-feb-2005');
- insert into movie values ('201','Avengers','31-dec-2011');
- insert into movie values ('301','Iron man III','12-oct-2010');
- insert into movie values ('401','Captain America III','10-march-2006');
- insert into movie values ('501','John Wick','24-nov-2004');

- Currnt

```
CREATE TABLE curent(
sid varchar(10) references screen(sid),
mid number(5) references movie(mid),
date_of_arr date,
date_of_cl date
);
```

- insert into curent values ('S1',101,'15-nov-2007','10-dec-2007');
- insert into curent values ('S3',501,'22-nov-2004','24-nov-2004');
- insert into curent values ('S2',201,'25-dec-2011','10-jan-2012');
- insert into curent values ('S4',301,'10-oct-2010','31-oct-2010');
- insert into curent values ('S5',401,'08-march-2006','30-march-2006');

**1. Get the name of movie which has run the longest in the multiplex so far.**

select m.mid,m.mname,c.date_of_cl- c.date_of_arr as Running_days from movie m,curent c where (c.date_of_cl-c.date_of_arr) in (select max(date_of_cl - date_of_arr) from curent) and m.mid = c.mid;

| MID | MNAME | RUNNING_DAYS |
|---|---|---|
| 101 | Star wars III | 25 |

**2.Get the average duration of a movie on screen number 'S4'.**

select sid,avg(date_of_cl-date_of_arr) from curent where sid = 'S4' group by sid;

| SID | AVG(DATE_OF_CL-DATE_OF_ARR) |
|---|---|
| S4 | 21 |

**3.Get the details of movie that closed on date 24-november-2004.**

select m.* from movie m,curent c where c.date_of_cl = '24-nov-2004';

| MID | MNAME | DATE_OF_REL |
|---|---|---|
| 101 | Star wars III | 12-FEB-05 |
| 201 | Avengers | 31-DEC-11 |
| 301 | Iron man III | 12-OCT-10 |
| 401 | Captain America III | 10-MAR-06 |
| 501 | John Wick | 24-NOV-04 |

**4.Movie 'star wars III 'was released in the 7 th week of 2005. Find out the date of its release considering that a movie releases only on Friday.**

select * from movie where TO_CHAR(date_of_rel,'ww')=7 and mname='Star wars III';

| MID | MNAME | DATE_OF_REL |
|---|---|---|
| 101 | Star wars III | 12-FEB-05 |

**5.Get the full outer join of the relations screen and current.**

select * from screen s full outer join curent c on s.sid=c.sid;

| SID | LOCATION | SEATING_CAP | SID | MID | DATE_OF_ARR | DATE_OF_CL |
|---|---|---|---|---|---|---|
| S1 | FF | 200 | S1 | 101 | 15-NOV-07 | 10-DEC-07 |
| S3 | FF | 100 | S3 | 501 | 22-NOV-04 | 24-NOV-04 |
| S2 | SF | 150 | S2 | 201 | 25-DEC-11 | 10-JAN-12 |
| S4 | TF | 180 | S4 | 301 | 10-OCT-10 | 31-OCT-10 |
| S5 | SF | 120 | S5 | 401 | 08-MAR-06 | 30-MAR-06 |