

A Report
On the work done during 3rd semester subject
Database Management Systems
of
B.Tech. Computer Engineering

School Management System

Prepared by: Name: Gupta Sanket Kalpeshbhai ID: 22CEUOG043 Roll No: CE045 Computer Engineering, Dharmsinh Desai University	Prepared by: Name: Hadiyal Mehul Mohanbhai ID: 22CEUBG071 Roll No: CE047 Computer Engineering, Dharmsinh Desai University
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Brief Information about the system

Introduction

Our system provides database solution for a School Management System. The solution consists of different levels of details. First of all, it is able to represent teachers, students, and various other employees of a school in the database. It is also capable of storing the data related to classrooms, standards, and subjects. After that, notion of lectures is also represented. Finally, attendance can also be stored into the system.

Objective

The objective is to create a system capable of storing various data related to a school organization. Now, even in various school organizations, there is vast difference in their workings. Hence, it is necessary to choose some requirements of our school, and then build a database based on those requirements.

Requirements of our school

Requirements related to students and employees

- We wish to represent a student as well as following different employees of a school: Teacher, Watchman, Cleanliness Worker, Peon.

Requirements related to standard and subject

- In our organization, a subject is taught in exactly one standard. This means that Mathematics of Std. 1st and Std. 2nd are different.
- Within a standard, subject names are unique.
- We need to store in which standard a student is studying in, and which past standards the student has studied in.
- Within a standard, all students have unique roll numbers.
- Each standard has a class teacher, and a teacher can be class teacher of at most one standard.

- Each standard has a classroom allocated to it. A classroom is characterized by room number, building number.

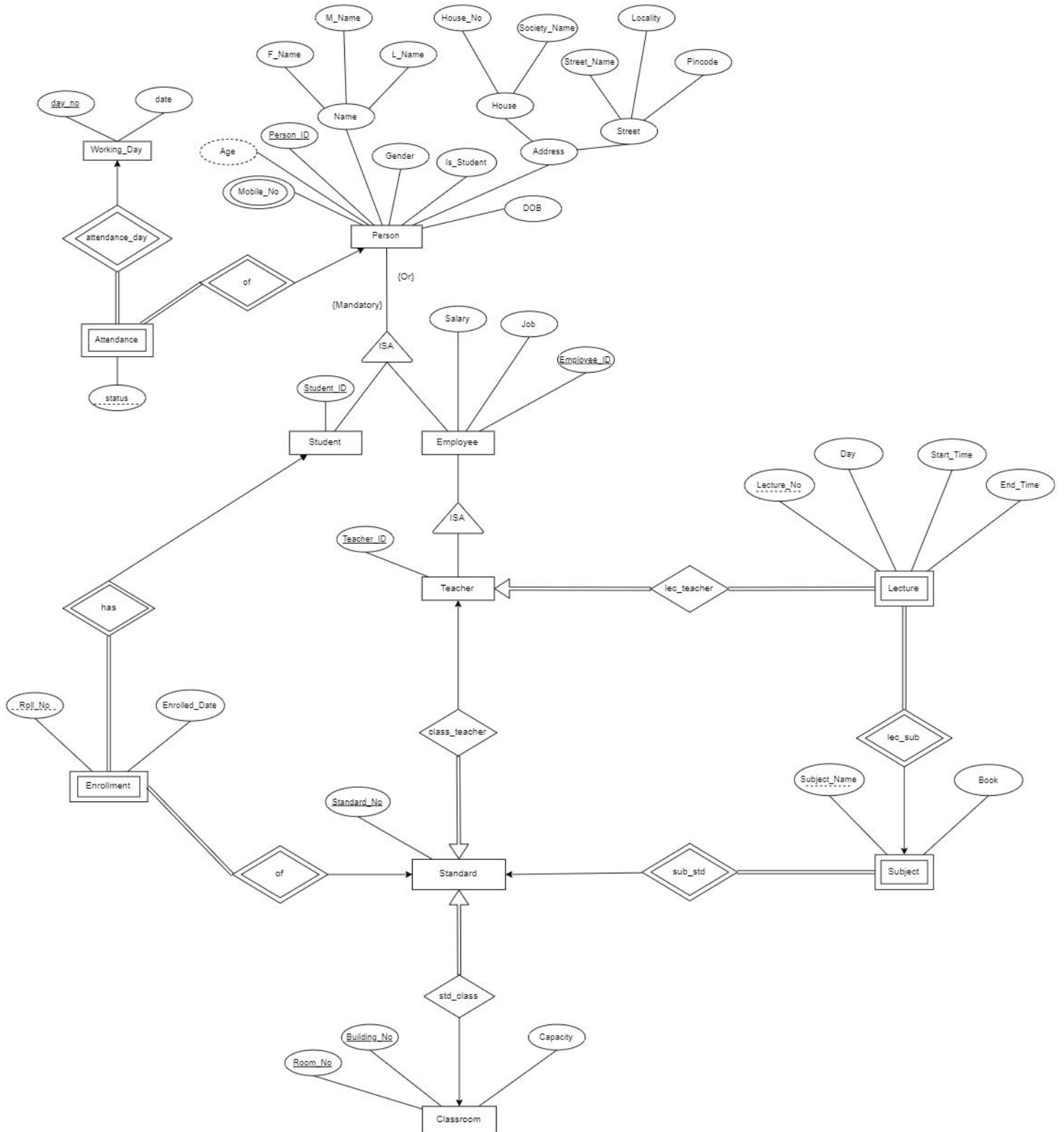
Requirements related to lectures

- Organization needs to store data related to weekly lectures.
- A lecture is characterized by a particular subject (which is of a particular standard), and its lecture number.
- We also need to store the day, start time, end time related to a lecture.
- A lecture is conducted by exactly one teacher and one teacher has to conduct at least one lecture in a week.

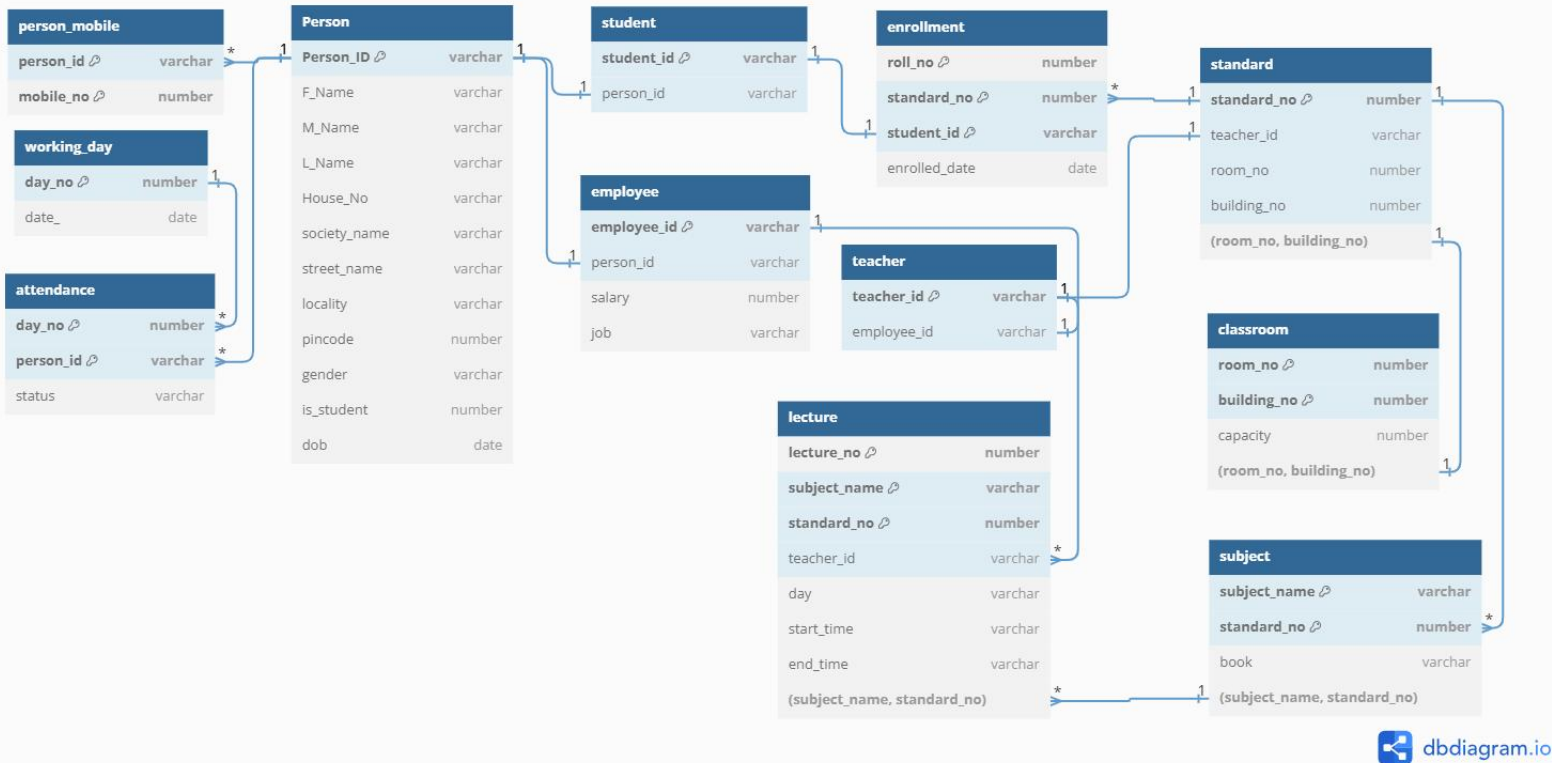
Requirements related to attendance

- Organization needs to store whether a person was present on a specific working day or not.

ER Diagram



Schema



Person(Person_ID, F_Name, M_Name, L_Name, House_No, Society_Name, Street_Name, Locality, Pincode, Gender, Is_Student, DOB);

Person_Mobile(Person_ID, Mobile_No,
Person_ID references Person);

Student(Student_ID, Person_ID,
Person_ID references Person,
Person_ID Unique);

Employee(Employee_ID, Person_ID, Salary, Job,
Person_ID references Person,
Person_ID Unique);

Teacher(Teacher_ID, Employee_ID,
Employee_ID references Employee,
Employee_ID Unique);

Classroom(Room_No, Building_No, Capacity);

Standard(Standard_No, Teacher_ID, Room_No, Building_No,
Teacher_ID references Teacher,
(Room_No, Building_No) references Classroom,
Teacher_ID Unique);

Subject(Subject_Name, Standard_No, Book,
Standard_No references Standard);

Enrollment(Roll_No, Standard_No, Student_ID,
Standard_No references Standard,
Student_ID references Student);

Lecture(Lecture_No, Subject_Name, Standard_No, Teacher_ID, Day, Start_Time, End_Time,
(Subject_Name, Standard_No) references Subject,
Teacher_ID references Teacher);

Working_Day(Day_No, Date_);

Attendance(Day_No, Person_ID, Status,
Day_No references Working_Day,
Person_ID references Person);

Normalization Comments

Normalization is the process of decomposing our relational schema into smaller relations, so as to remove insertion, deletion, updation, and redundancy anomalies.

One way to check if our database needs normalization is to check whether any of the anomalies are present or not. The way is to write down the Functional Dependencies, and follow the normalization procedure. If our system is already normalized, it will not change, otherwise it will be normalized.

1NF

The condition of the first normal form is that every attribute in our relations be atomic and there should be no multi-valued attribute. Clearly, all relations have atomic attributes (Name has been decomposed into F_Name, M_Name, L_Name. Address has also been decomposed into atomic attributes). Also, no relation has any multi-valued attribute (Mobile number has a separate relation for it).

Hence, the schema is already in 1NF.

2NF

For a relation to be in 2NF, there should be no partial dependencies in the relation, that is, there should be no attribute that depends on part of the candidate key. In our case, there are no such attributes in any relation. Hence, all relations are already in 2NF.

Hence, the schema is already in 2NF.

3NF

3NF requires that no relation should have any transitive dependency, meaning that there should be no attribute that depends on a non-prime attribute. Again, no such attributes in any relation.

Hence, the schema is already in 3NF.

CRUD (DDL and DML)

Person

Create

CREATE TABLE Person

```
(  
    Person_ID varchar(10) PRIMARY KEY,  
    F_Name varchar(50) not null,  
    M_Name varchar(50) not null,  
    L_Name varchar(50) not null,  
    House_No varchar(10) not null,  
    society_name varchar(50) not null,  
    street_name varchar(50) not null,  
    locality varchar(30) not null,  
    pincode number(6,0) not null,  
    gender varchar(10) CHECK (gender IN('Male', 'Female', 'Other')),  
    is_student number(1, 0) check (is_student in(0, 1)),  
    dob date not null  
);
```

Insert

insert into person values('P0001', 'Meet', 'Ramesh', 'Patel', '101', 'Krishna Crown', 'College Road', 'Nadiad', 387001, 'Male', 1, '11-MAY-2008');

insert into person values('P0002', 'Maharshi', 'Dipak', 'Jani', '303', 'Aarav Society', 'Canal Road', 'Ghodasar', 380050, 'Male', 1, '25-SEP-2007');

insert into person values('P0003', 'Amatulla', 'Akbari', 'Gajipurwala', '205', 'Prime Society', 'Punit Road', 'Nadiad', 387002, 'Female', 1, '18-JAN-2006');

insert into person values('P0004', 'Nihar', 'Vipul', 'Rakholiya', '306', 'Aarav Society', 'Canal Road', 'Ghodasar', 380050, 'Male', 1, '10-SEP-2007');

insert into person values('P0005', 'Dev', 'Dipesh', 'Patel', '202', 'Royal Heights', 'College Road', 'Nadidad', 387001, 'Male', 1, '10-JAN-2007');

insert into person values('P0006', 'Het', 'Brijesh', 'Parikh', '54', 'Gokul Society', 'Punit Road', 'Ghodasar', 380050, 'Male', 1, '14-FEB-2009');

insert into person values('P0007', 'Nensee', 'Kishor', 'Zankat', '48', 'Baleshwar City', 'Lalgebi Road', 'Hathijan', 382445, 'Female', 1, '26-MAR-2010');

insert into person values('P0008', 'Harshpalsinh', 'Champaksinh', 'Zala', '14', 'Viratnagar Society', 'Lalbhai Road', 'Dhrangadhra', 364554, 'Male', 1, '05-NOV-2009');

insert into person values('P0009', 'Darshit', 'Dharmesh', 'Vyas', '504', 'Aarav Society', 'Canal Road', 'Ghodasar', 380050, 'Male', 1, '06-JUN-2011');

insert into person values('P0010', 'Sahil', 'Irfan', 'Vora', '202', 'Royal Heights', 'College Road', 'Nadiad', 387001, 'Male', 1, '10-OCT-2011');

insert into person values('P0011', 'Yug', 'Nipul', 'Vithani', '45', 'Baleshwar City', 'Lalgebi Road', 'Hathijan', 382445, 'Male', 1, '17-AUG-2012');

insert into person values('P0012', 'Vasu', 'Piyush', 'Vekariya', '16', 'Viratnagar Society', 'Lalbhai Road', 'Dhrangadhra', 364554, 'Male', 1, '29-NOV-2012');

insert into person values('P0013', 'Parth', 'Sandeep', 'Vasava', '26', 'Gokul Society', 'Punit Road', 'Ghodasar', 380050, 'Male', 1, '01-AUG-2016');

insert into person values('P0014', 'Jinesh', 'Vijay', 'Vamja', '17', 'Aarav Society', 'Canal Road', 'Ghodasar', 380050, 'Male', 1, '14-MAR-2016');

insert into person values('P0015', 'Manish', 'Danabhai', 'Vala', '304', 'Royal Heights', 'College Road', 'Nadiad', 387001, 'Male', 1, '19-SEP-2017');

insert into person values('P0016', 'Sohel', 'Danishbhai', 'Vahora', '47', 'Baleshwar City', 'Lalgebi Road', 'Hathijan', 382445, 'Male', 1, '04-JUL-2017');

insert into person values('P0017', 'Prince', 'Sailesh', 'Vaghasiya', '11', 'Gokul Society', 'Punit Road', 'Ghodasar', 380050, 'Male', 1, '06-APR-2016');

insert into person values('P0018', 'Shrushti', 'Rajesh', 'Vaghasiya', '204', 'Prime Society', 'Punit Road', 'Nadiad', 387002, 'Female', 1, '18-MAR-2016');

insert into person values('P0019', 'Jimesh', 'Manoj', 'Vadodariya', '404', 'Aarav Society', 'Canal Road', 'Ghodasar', 380050, 'Male', 1, '07-JAN-2017');

insert into person values('P0020', 'Akshar', 'Anand', 'Vadher', '202', 'Nexus Heights', 'College Road', 'Nadiad', 387001, 'Male', 1, '13-DEC-2016');

insert into person values('P0021', 'Milan', 'Naresh', 'Vadhel', '303', 'Krishna Crown', 'College Road', 'Nadiad', 387001, 'Male', 1, '11-JAN-2017');

insert into person values('P0022', 'Shyam', 'Dinesh', 'Vachhani', '401', 'Royal Heights', 'College Road', 'Nadiad', 387001, 'Male', 1, '16-AUG-2016');

insert into person values('P0023', 'Urvi', 'Rajesh', 'Vasava', '206', 'Prime Society', 'Punit Road', 'Nadiad', 387001, 'Female', 1, '19-JUL-2016');

insert into person values('P0024', 'Sahil', 'Sanjay', 'Undhad', '103', 'Krishna Crown', 'College Road', 'Nadiad', 387001, 'Male', 1, '30-JAN-2017');

insert into person values('P0025', 'Khushi', 'Ishwar', 'Umarvanshi', '504', 'Prime Society', 'Punit Road', 'Nadiad', 387001, 'Female', 1, '23-FEB-2017');

insert into person
values('P0026', 'Dhamsania', 'Dhruvil', 'Arvindbhai', 'A1', 'Sahajanand', 'A12', 'Nadiad', 387001, 'Male', 0, '29-DEC-2005');

insert into person
values('P0027', 'Dhanani', 'Vaibhav', 'Vijaybhai', 'A2', 'Sahajanand', 'A123', 'Nadiad', 387001, 'Male', 0, '25-jan-2005');

insert into person
values('P0028', 'Dobariya', 'Meet', 'Manojbhai', 'A3', 'Sahajanand', 'A12', 'Nadiad', 387001, 'Male', 0, '28-feb-2000');

insert into person
values('P0029', 'Dobariya', 'Vrund', 'Ghanshayambhai', 'A4', 'Vidhyut', 'B12', 'Baroda', 388812, 'Male', 0, '12-jan-1998');

insert into person
values('P0030', 'Fadadu', 'Khanjan', 'Arvinbhai', 'B12', 'Jambuvan', 'A123', 'Baroda', 388812, 'Male', 0, '21-dec-2003');

insert into person
values('P0031', 'Faldu', 'Arpit', 'Kiritbhai', 'C12', 'Vidhya', 'C2', 'Nadiad', 387001, 'Male', 0, '22-jan-2000');

insert into person
values('P0032', 'Gabani', 'Kuldeep', 'Nareshbhai', 'Z12', 'yamuna', 'J12', 'Nadiad', 387001, 'Male', 0, '11-nov-1999');

insert into person
values('P0033', 'Gabani', 'Yash', 'Niteshbhai', 'B123', 'Yamata', 'X12', 'Baroda', 383880, 'Male', 0, '01-jan-2001');

insert into person
values('P0034', 'Gajera', 'Jaimin', 'Nileshbhai', 'R12', 'Vidhyut', 'C45', 'Surat', 123456, 'Male', 0, '17-jan-2002');

insert into person
values('P0035', 'Gajera', 'Kavan', 'Sanjeevbhai', 'Y12', 'Samantha', 'J12', 'Nadiad', 378001, 'Male', 0, '12-may-2008');

insert into person

values('P0036','Gajera','Rushang','Manojbhai','A2','Samantha','H12','Kheda',345678,'Male',0,'12-jan-2000');

insert into person

values('P0037','Gandhi','Nitya','Vijaybhai','C123','Yamuna','H14','Vadodara',345672,'Male',0,'8-feb-2004');

insert into person

values('P0038','Ganjawala','Samarth','Sanjaybhai','B12','Vishwa','M12','Nadiad',361312,'Male',0,'12-may-2005');

insert into person

values('P0039','Ganvit','Nikunj Kumar','Pravinbhai','C65','IPCO','V12','Anand',129023,'Male',0,'17-jan-1999');

insert into person

values('P0040','Garala','Mahek','Rameshbhai','V123','Karma','B123','Nadaiad',387001,'Female',0,'1-jan-1992');

insert into person

values('P0041','Garasia','Nrushans','Amrutbhai','B122','Vidhya','C90','Annad',370022,'Male',0,'22-may-1998');

insert into person

values('P0042','Gohel','Akshay','Rajendrakumar','V15','Amrut','B12','Nadiad',229012,'Male',0,'24-june-1998');

insert into person

values('P0043','Gohil','Nana','Gambhirbhai','C45','Krishna','J12','Neshda',387001,'Male',0,'4-jan-2005');

insert into person

values('P0044','Gohil','Sumit','Jitendrakumar','Ce044','Krishan','N12','Nadiad',387001,'Male',0,'05-may-1998');

insert into person

values('P0045','Gupta','Sanket','Kalpeshbhai','C12','Krishna','H45','Nadiad',387001,'Male',0,'22-feb-2000');

insert into person values

('P0046','Gurjar','Karan','Vijaybhai','V67','Ambika','L12','Kheda',389011,'Male',0,'18-feb-1999');

insert into person values

('P0047','Hadiyal','Mehul','Mohanbhai','C12','Dwarkesh','Mj12','Dwarka',361315,'Male',0,'29-jan-2005');

insert into person values

('P0048','Haraniya','Smith','Niteshkumar','G12','Kanera','K12','Kheda',453617,'Male',0,'22-feb-1998');

insert into person values

('P0049','Husain','Saif','Sahilbhai','H45','Saraswati','L12','Anand',370011,'Male',0,'15-may-1999');

insert into person values

('P0050','Jambudiya','Heet','Ketanbhai','V33','Krishna','C22','Nadiad',370001,'Male',0,'14-may-1997');

PERSON_ID	F_NAME	M_NAME	L_NAME	HOUSE_NO	SOCIETY_NAME	STREET_NAME	LOCALITY	PINCODE	GENDER	IS_STUDENT	DOB
1 P0001	Meet	Ramesh	Patel	101	Krishna Crown	College Road	Nadiad	387001	Male		1 11-05-08
2 P0002	Maharshi	Dipak	Jani	303	Aarav Society	Canal Road	Ghodasar	380050	Male		1 25-09-07
3 P0003	Amatulla	Akbari	Gajipurwala	205	Prime Society	Punit Road	Nadiad	387002	Female		1 18-01-06
4 P0004	Nihar	Vipul	Rakholiya	306	Aarav Society	Canal Road	Ghodasar	380050	Male		1 10-09-07
5 P0005	Dev	Dipesh	Patel	202	Royal Heights	College Road	Nadidad	387001	Male		1 10-01-07
6 P0006	Het	Brijesh	Parikh	54	Gokul Society	Punit Road	Ghodasar	380050	Male		1 14-02-09
7 P0007	Nensee	Kishor	Zankat	48	Baleshwar City	Lalgebi Road	Hathijan	382445	Female		1 26-03-10
8 P0008	Harshpalsinh	Champaksinh	Zala	14	Viratnagar Society	Lalbhai Road	Dhrangadhra	364554	Male		1 05-11-09
9 P0009	Darshit	Dharmesh	Vyas	504	Aarav Society	Canal Road	Ghodasar	380050	Male		1 06-06-11
10 P0010	Sahil	Irfan	Vora	202	Royal Heights	College Road	Nadiad	387001	Male		1 10-10-11
11 P0011	Yug	Nipul	Vithani	45	Baleshwar City	Lalgebi Road	Hathijan	382445	Male		1 17-08-12
12 P0012	Vasu	Piyush	Vekariya	16	Viratnagar Society	Lalbhai Road	Dhrangadhra	364554	Male		1 29-11-12
13 P0013	Parth	Sandeep	Vasava	26	Gokul Society	Punit Road	Ghodasar	380050	Male		1 01-08-16
14 P0014	Jinesh	Vijay	Vamja	17	Aarav Society	Canal Road	Ghodasar	380050	Male		1 14-03-16
15 P0015	Manish	Danabhai	Vala	304	Royal Heights	College Road	Nadiad	387001	Male		1 19-09-17
16 P0016	Sohel	Danishbhai	Vahora	47	Baleshwar City	Lalgebi Road	Hathijan	382445	Male		1 04-07-17
17 P0017	Prince	Sailesh	Vaghasiya	11	Gokul Society	Punit Road	Ghodasar	380050	Male		1 06-04-16
18 P0018	Shrushti	Rajesh	Vaghasiya	204	Prime Society	Punit Road	Nadiad	387002	Female		1 18-03-16
19 P0019	Jimesh	Manoj	Vadodariya	404	Aarav Society	Canal Road	Ghodasar	380050	Male		1 07-01-17
20 P0020	Akshar	Anand	Vadher	202	Nexus Heights	College Road	Nadiad	387001	Male		1 13-12-16
21 P0021	Milan	Naresh	Vadhel	303	Krishna Crown	College Road	Nadiad	387001	Male		1 11-01-17
22 P0022	Shyam	Dinesh	Vachhani	401	Royal Heights	College Road	Nadiad	387001	Male		1 16-08-16
23 P0023	Urvi	Rajesh	Vasava	206	Prime Society	Punit Road	Nadiad	387001	Female		1 19-07-16
24 P0024	Sahil	Sanjay	Undhad	103	Krishna Crown	College Road	Nadiad	387001	Male		1 30-01-17
25 P0025	Khushi	Ishwar	Umarvanshi	504	Prime Society	Punit Road	Nadiad	387001	Female		1 23-02-17
26 P0026	Dhamsania	Dhruvil	Arvindbhai	A1	Sahajanand	A12	Nadiad	387001	Male		0 29-12-05
27 P0027	Dhanani	Vaibhav	Vijaybhai	A2	Sahajanad	A123	Nadiad	387001	Male		0 25-01-05
28 P0028	Dobariya	Meet	Manojbhai	A3	Sahajanand	A12	Nadiad	387001	Male		0 28-02-00
29 P0029	Dobariya	Vrund	Ghanshayambhai	A4	Vidhyut	B12	Baroda	388812	Male		0 12-01-98
30 P0030	Fadadu	Khanjan	Arvinbhai	B12	Jambuvan	A123	Baroda	388812	Male		0 21-12-03
31 P0031	Faldu	Arpit	Kiritbhai	C12	Vidhya	C2	Nadiad	387001	Male		0 22-01-00
32 P0032	Gabani	Kuldeep	Nareshbhai	Z12	yamuna	J12	Nadiad	387001	Male		0 11-11-99
33 P0033	Gabani	Yash	Niteshbhai	B123	Yamata	X12	Baroda	383880	Male		0 01-01-01
34 P0034	Gajera	Jaimin	Nileshbhai	R12	Vidhyut	C45	Surat	123456	Male		0 17-01-02
35 P0035	Gajera	Kavan	Sanjeevbhai	Y12	Samantha	J12	Nadiad	378001	Male		0 12-05-08
36 P0036	Gajera	Rushang	Manojbhai	A2	Samantha	H12	Kheda	345678	Male		0 12-01-00
37 P0037	Gandhi	Nitya	Vijaybhai	C123	Yamuna	H14	Vadodara	345672	Male		0 08-02-04
38 P0038	Ganjawala	Samarth	Sanjaybhai	B12	Vishwa	M12	Nadiad	361312	Male		0 12-05-05
39 P0039	Ganvit	Nikunj Kumar	Pravinbhai	C65	IPCO	V12	Anand	129023	Male		0 17-01-99
40 P0040	Garala	Mahek	Rameshbhai	V123	Karma	B123	Nadaiad	387001	Female		0 01-01-92
41 P0041	Garasia	Nrushans	Amrutbhai	B122	Vidhya	C90	Annad	370022	Male		0 22-05-98
42 P0042	Gohel	Akshay	Rajendrakumar	V15	Amrut	B12	Nadiad	229012	Male		0 24-06-98
43 P0043	Gohil	Nana	Gambhirbhai	C45	Krishna	J12	Neshda	387001	Male		0 04-01-05
44 P0044	Gohil	Sumit	Jitendrakumar	Ce044	Krishan	N12	Nadiad	387001	Male		0 05-05-98
45 P0045	Gupta	Sanket	Kalpeshbhai	C12	Krishna	H45	Nadiad	387001	Male		0 22-02-00
46 P0046	Gurjar	Karan	Vijaybhai	V67	Ambika	L12	Kheda	389011	Male		0 18-02-99
47 P0047	Hadiyal	Mehul	Mohanbhai	C12	Dwarkesh	Mj12	Dwarka	361315	Male		0 29-01-05
48 P0048	Haraniya	Smith	Niteshkumar	G12	Kanera	K12	Kheda	453617	Male		0 22-02-98
49 P0049	Husain	Saif	Sahilbhai	H45	Saraswati	L12	Anand	370011	Male		0 15-05-99
50 P0050	Jambudiya	Heet	Ketanbhai	V33	Krishna	C22	Nadiad	370001	Male		0 14-05-97

Student

Create

```
CREATE TABLE Student
(
    student_id varchar(10) PRIMARY KEY,
    person_id varchar(10),
    foreign key(person_id) REFERENCES person(person_id)
);
```

Insert

```
insert into student values ('S1', 'P0001');
insert into student values ('S2', 'P0002');
insert into student values ('S3', 'P0003');
insert into student values ('S4', 'P0004');
insert into student values ('S5', 'P0005');
insert into student values ('S6', 'P0006');
insert into student values ('S7', 'P0007');
insert into student values ('S8', 'P0008');
insert into student values ('S9', 'P0009');
insert into student values ('S10', 'P0010');
insert into student values ('S11', 'P0011');
insert into student values ('S12', 'P0012');
insert into student values ('S13', 'P0013');
insert into student values ('S14', 'P0014');
insert into student values ('S15', 'P0015');
insert into student values ('S16', 'P0016');
insert into student values ('S17', 'P0017');
insert into student values ('S18', 'P0018');
```

insert into student values ('S19', 'P0019');

insert into student values ('S20', 'P0020');

insert into student values ('S21', 'P0021');

insert into student values ('S22', 'P0022');

insert into student values ('S23', 'P0023');

insert into student values ('S24', 'P0024');

insert into student values ('S25', 'P0025');

	STUDENT_ID	PERSON_ID
1	S1	P0001
2	S2	P0002
3	S3	P0003
4	S4	P0004
5	S5	P0005
6	S6	P0006
7	S7	P0007
8	S8	P0008
9	S9	P0009
10	S10	P0010
11	S11	P0011
12	S12	P0012
13	S13	P0013
14	S14	P0014
15	S15	P0015
16	S16	P0016
17	S17	P0017
18	S18	P0018
19	S19	P0019
20	S20	P0020
21	S21	P0021
22	S22	P0022
23	S23	P0023
24	S24	P0024
25	S25	P0025

Employee

Create

```
CREATE TABLE Employee
(
    employee_id varchar(10) PRIMARY KEY,
    person_id varchar(10),
    salary number(6, 0) not null,
    job varchar(30) check (job in('Teacher', 'Watchman', 'Cleanliness Worker', 'Peon')),
    foreign key (person_id) REFERENCES person(person_id)
);
```

Insert

```
insert into employee values ('E1', 'P0026', '10000', 'Peon');
insert into employee values ('E2', 'P0027', '10000', 'Peon');
insert into employee values ('E3', 'P0028', '10000', 'Cleanliness Worker');
insert into employee values ('E4', 'P0029', '10000', 'Peon');
insert into employee values ('E5', 'P0030', '10000', 'Watchman');
insert into employee values ('E6', 'P0031', '10000', 'Peon');
insert into employee values ('E7', 'P0032', '10000', 'Peon');
insert into employee values ('E8', 'P0033', '10000', 'Cleanliness Worker');
insert into employee values ('E9', 'P0034', '10000', 'Peon');
insert into employee values ('E10', 'P0035', '10000', 'Watchman');
insert into employee values ('E11', 'P0036', '10000', 'Peon');
insert into employee values ('E12', 'P0037', '10000', 'Cleanliness Worker');
insert into employee values ('E13', 'P0038', '40000', 'Teacher');
insert into employee values ('E14', 'P0039', '10000', 'Peon');
insert into employee values ('E15', 'P0040', '10000', 'Peon');
insert into employee values ('E16', 'P0041', '40000', 'Teacher');
```

insert into employee values ('E17', 'P0042', '40000', 'Teacher');

insert into employee values ('E18', 'P0043', '40000', 'Teacher');

insert into employee values ('E19', 'P0044', '40000', 'Teacher');

insert into employee values ('E20', 'P0045', '10000', 'Watchman');

insert into employee values ('E21', 'P0046', '10000', 'Watchman');

insert into employee values ('E22', 'P0047', '10000', 'Cleanliness Worker');

insert into employee values ('E23', 'P0048', '10000', 'Peon');

insert into employee values ('E24', 'P0049', '10000', 'Watchman');

insert into employee values ('E25', 'P0050', '40000', 'Teacher');

	EMPLOYEE_ID	PERSON_ID	SALARY	JOB
1	E1	P0026	10000	Peon
2	E2	P0027	10000	Peon
3	E3	P0028	10000	Cleanliness Worker
4	E4	P0029	10000	Peon
5	E5	P0030	10000	Watchman
6	E6	P0031	10000	Peon
7	E7	P0032	10000	Peon
8	E8	P0033	10000	Cleanliness Worker
9	E9	P0034	10000	Peon
10	E10	P0035	10000	Watchman
11	E11	P0036	10000	Peon
12	E12	P0037	10000	Cleanliness Worker
13	E13	P0038	40000	Teacher
14	E14	P0039	10000	Peon
15	E15	P0040	10000	Peon
16	E16	P0041	40000	Teacher
17	E17	P0042	40000	Teacher
18	E18	P0043	40000	Teacher
19	E19	P0044	40000	Teacher
20	E20	P0045	10000	Watchman
21	E21	P0046	10000	Watchman
22	E22	P0047	10000	Cleanliness Worker
23	E23	P0048	10000	Peon
24	E24	P0049	10000	Watchman
25	E25	P0050	40000	Teacher

Teacher

Create

```
CREATE TABLE Teacher
```

```
(
```

```
  teacher_id varchar(10) PRIMARY KEY,
```

```
  employee_id varchar(10),
```

```
  foreign key (employee_id) REFERENCES employee(employee_id)
```

```
);
```

Insert

```
insert into teacher values ('T1', 'E13');
```

```
insert into teacher values ('T2', 'E16');
```

```
insert into teacher values ('T3', 'E17');
```

```
insert into teacher values ('T4', 'E18');
```

```
insert into teacher values ('T5', 'E19');
```

```
insert into teacher values ('T6', 'E25');
```

	TEACHER_ID	EMPLOYEE_ID
1	T1	E13
2	T2	E16
3	T3	E17
4	T4	E18
5	T5	E19
6	T6	E25

Classroom

Create

```
CREATE TABLE classroom(  
    room_no number(3, 0),  
    building_no number(3, 0),  
    capacity number(3, 0),  
    primary key(room_no, building_no)  
);
```

Insert

```
insert into classroom values (1, 1, 50);  
insert into classroom values (2, 1, 40);  
insert into classroom values (3, 1, 30);  
insert into classroom values (1, 2, 40);  
insert into classroom values (2, 2, 50);
```

	ROOM_NO	BUILDING_NO	CAPACITY
1	1	1	50
2	2	1	40
3	3	1	30
4	1	2	40
5	2	2	50

Standard

Create

```
CREATE TABLE standard  
(  
    standard_no number(2, 0) PRIMARY KEY,  
    teacher_id varchar(10),
```

```

room_no number(3, 0),
building_no number(3, 0),
foreign key(teacher_id) REFERENCES teacher(teacher_id),
foreign key(room_no, building_no) references classroom
);

```

Insert

```

insert into standard values (1, 'T1', 1, 1);
insert into standard values (2, 'T2', 2, 1);
insert into standard values (3, 'T3', 3, 1);
insert into standard values (4, 'T6', 1, 2);

```

	STANDARD_NO	TEACHER_ID	ROOM_NO	BUILDING_NO
1	1	T1	1	1
2	2	T2	2	1
3	3	T3	3	1
4	4	T6	1	2

Subject

Create

```

create table subject
(
    subject_name varchar(30) not null,
    standard_no number(3),
    book varchar(40) not null,
    foreign key(standard_no) references standard(standard_no),
    primary key(subject_name, standard_no)
);

```

Insert

insert into subject values ('Mathematics', 1, 'Mathematics, Std. 1, GCERT');

insert into subject values ('Hindi', 1, 'Hindi language, Std. 1, GCERT');

insert into subject values ('Gujarati', 1, 'Gujarati, Std. 1, GCERT');

insert into subject values ('English', 1, 'English, Std. 1, GCERT');

insert into subject values ('Science', 1, 'Science for beginners, GCERT');

insert into subject values ('Mathematics', 2, 'Mathematics, Std. 2, GCERT');

insert into subject values ('Hindi', 2, 'Hindi language, Std. 2, GCERT');

insert into subject values ('Gujarati', 2, 'Gujarati, Std. 2, GCERT');

insert into subject values ('English', 2, 'English, Std. 2, GCERT');

insert into subject values ('Science', 2, 'Science for beginners, GCERT');

insert into subject values ('Mathematics', 3, 'Mathematics, Std. 3, GCERT');

insert into subject values ('Hindi', 3, 'Hindi language, Std. 3, GCERT');

insert into subject values ('Gujarati', 3, 'Gujarati, Std. 3, GCERT');

insert into subject values ('English', 3, 'English, Std. 3, GCERT');

insert into subject values ('Science', 3, 'Science for beginners, GCERT');

insert into subject values ('Social Science', 3, 'Social Science, Std. 3, GCERT');

insert into subject values ('Mathematics', 4, 'Mathematics, Std. 4, GCERT');

insert into subject values ('Hindi', 4, 'Hindi language, Std. 4, GCERT');

insert into subject values ('Gujarati', 4, 'Gujarati, Std. 4, GCERT');

insert into subject values ('English', 4, 'English, Std. 4, GCERT');

insert into subject values ('Science and Technology', 4, 'Science for intermediates, GCERT');

insert into subject values ('Social Science', 4, 'Social Science, Std. 4, GCERT');

⚡ SUBJECT_NAME	⚡ STANDARD_NO	⚡ BOOK
1 Mathematics	1	Mathematics, Std. 1, GCERT
2 Hindi	1	Hindi language, Std. 1, GCERT
3 Gujarati	1	Gujarati, Std. 1, GCERT
4 English	1	English, Std. 1, GCERT
5 Science	1	Science for beginners, GCERT
6 Mathematics	2	Mathematics, Std. 2, GCERT
7 Hindi	2	Hindi language, Std. 2, GCERT
8 Gujarati	2	Gujarati, Std. 2, GCERT
9 English	2	English, Std. 2, GCERT
10 Science	2	Science for beginners, GCERT
11 Mathematics	3	Mathematics, Std. 3, GCERT
12 Hindi	3	Hindi language, Std. 3, GCERT
13 Gujarati	3	Gujarati, Std. 3, GCERT
14 English	3	English, Std. 3, GCERT
15 Science	3	Science for beginners, GCERT
16 Social Science	3	Social Science, Std. 3, GCERT
17 Mathematics	4	Mathematics, Std. 4, GCERT
18 Hindi	4	Hindi language, Std. 4, GCERT
19 Gujarati	4	Gujarati, Std. 4, GCERT
20 English	4	English, Std. 4, GCERT
21 Science and Technology	4	Science for intermediates, GCERT
22 Social Science	4	Social Science, Std. 4, GCERT

Enrollment

Create

create table enrollment

(

roll_no number(3),

standard_no number(3),

student_id varchar(10) not null,

enrolled_date date not null,

foreign key(standard_no) references standard,

```
foreign key(student_id) references student,  
primary key(roll_no, standard_no)  
);
```

Insert

```
insert into enrollment values (1, 1, 'S1', '6-MAY-2023');  
insert into enrollment values (2, 1, 'S2', '6-MAY-2023');  
insert into enrollment values (3, 1, 'S3', '6-MAY-2023');  
insert into enrollment values (4, 1, 'S4', '6-MAY-2023');  
insert into enrollment values (5, 1, 'S5', '6-MAY-2023');  
insert into enrollment values (6, 1, 'S6', '6-MAY-2023');
```

```
insert into enrollment values (1, 2, 'S7', '8-MAY-2023');  
insert into enrollment values (2, 2, 'S8', '8-MAY-2023');  
insert into enrollment values (3, 2, 'S9', '8-MAY-2023');  
insert into enrollment values (4, 2, 'S10', '8-MAY-2023');  
insert into enrollment values (5, 2, 'S11', '8-MAY-2023');  
insert into enrollment values (6, 2, 'S12', '8-MAY-2023');
```

```
insert into enrollment values (1, 3, 'S13', '9-MAY-2023');  
insert into enrollment values (2, 3, 'S14', '9-MAY-2023');  
insert into enrollment values (3, 3, 'S15', '9-MAY-2023');  
insert into enrollment values (4, 3, 'S16', '9-MAY-2023');  
insert into enrollment values (5, 3, 'S17', '9-MAY-2023');
```

```
insert into enrollment values (1, 4, 'S18', '11-MAY-2023');  
insert into enrollment values (2, 4, 'S19', '11-MAY-2023');  
insert into enrollment values (3, 4, 'S20', '11-MAY-2023');  
insert into enrollment values (4, 4, 'S21', '11-MAY-2023');
```


insert into enrollment values (5, 4, 'S22', '11-MAY-2023');

insert into enrollment values (6, 4, 'S23', '11-MAY-2023');

insert into enrollment values (7, 4, 'S24', '11-MAY-2023');

insert into enrollment values (8, 4, 'S25', '11-MAY-2023');

	ROLL_NO	STANDARD_NO	STUDENT_ID	ENROLLED_DATE
1	1	1	S1	06-05-23
2	2	1	S2	06-05-23
3	3	1	S3	06-05-23
4	4	1	S4	06-05-23
5	5	1	S5	06-05-23
6	6	1	S6	06-05-23
7	1	2	S7	08-05-23
8	2	2	S8	08-05-23
9	3	2	S9	08-05-23
10	4	2	S10	08-05-23
11	5	2	S11	08-05-23
12	6	2	S12	08-05-23
13	1	3	S13	09-05-23
14	2	3	S14	09-05-23
15	3	3	S15	09-05-23
16	4	3	S16	09-05-23
17	5	3	S17	09-05-23
18	1	4	S18	11-05-23
19	2	4	S19	11-05-23
20	3	4	S20	11-05-23
21	4	4	S21	11-05-23
22	5	4	S22	11-05-23
23	6	4	S23	11-05-23
24	7	4	S24	11-05-23
25	8	4	S25	11-05-23

Lecture

Create

create table lecture

```
(  
    lecture_no number(2),  
    subject_name varchar(30),  
    standard_no number(3),  
    teacher_id varchar(10),  
    day varchar(14) check (day in('Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday')),  
    start_time varchar(10) not null,  
    end_time varchar(10) not null,  
    primary key(standard_no, subject_name, lecture_no),  
    foreign key(subject_name, standard_no) references subject,  
    foreign key(teacher_id) references teacher  
);
```

Insert

```
insert into lecture values(1, 'Mathematics', 1, 'T1', 'Monday', '07:30', '08:00');  
insert into lecture values(2, 'Mathematics', 1, 'T1', 'Monday', '08:00', '08:30');  
insert into lecture values(1, 'Hindi', 1, 'T3', 'Monday', '08:30', '09:00');  
insert into lecture values(1, 'Gujarati', 1, 'T2', 'Monday', '09:00', '09:30');  
insert into lecture values(1, 'English', 1, 'T4', 'Monday', '10:00', '10:30');  
insert into lecture values(1, 'Science', 1, 'T1', 'Monday', '10:30', '11:00');  
insert into lecture values(2, 'Science', 1, 'T1', 'Monday', '11:00', '11:30');  
insert into lecture values(2, 'English', 1, 'T4', 'Monday', '11:30', '12:00');  
  
insert into lecture values(3, 'Mathematics', 1, 'T1', 'Tuesday', '07:30', '08:00');
```

```
insert into lecture values(4, 'Mathematics', 1, 'T1', 'Tuesday', '08:00', '08:30');
insert into lecture values(2, 'Hindi', 1, 'T3', 'Tuesday', '08:30', '09:00');
insert into lecture values(2, 'Gujarati', 1, 'T2', 'Tuesday', '09:00', '09:30');
insert into lecture values(3, 'English', 1, 'T4', 'Tuesday', '10:00', '10:30');
insert into lecture values(3, 'Science', 1, 'T1', 'Tuesday', '10:30', '11:00');
insert into lecture values(4, 'Science', 1, 'T1', 'Tuesday', '11:00', '11:30');
insert into lecture values(4, 'English', 1, 'T4', 'Tuesday', '11:30', '12:00');
```

```
insert into lecture values(5, 'Mathematics', 1, 'T1', 'Wednesday', '07:30', '08:00');
insert into lecture values(6, 'Mathematics', 1, 'T1', 'Wednesday', '08:00', '08:30');
insert into lecture values(3, 'Hindi', 1, 'T3', 'Wednesday', '08:30', '09:00');
insert into lecture values(3, 'Gujarati', 1, 'T2', 'Wednesday', '09:00', '09:30');
insert into lecture values(5, 'English', 1, 'T4', 'Wednesday', '10:00', '10:30');
insert into lecture values(5, 'Science', 1, 'T1', 'Wednesday', '10:30', '11:00');
insert into lecture values(6, 'Science', 1, 'T1', 'Wednesday', '11:00', '11:30');
insert into lecture values(6, 'English', 1, 'T4', 'Wednesday', '11:30', '12:00');
```

```
insert into lecture values(7, 'Mathematics', 1, 'T1', 'Thursday', '07:30', '08:00');
insert into lecture values(8, 'Mathematics', 1, 'T1', 'Thursday', '08:00', '08:30');
insert into lecture values(4, 'Hindi', 1, 'T3', 'Thursday', '08:30', '09:00');
insert into lecture values(4, 'Gujarati', 1, 'T2', 'Thursday', '09:00', '09:30');
insert into lecture values(7, 'English', 1, 'T4', 'Thursday', '10:00', '10:30');
insert into lecture values(7, 'Science', 1, 'T1', 'Thursday', '10:30', '11:00');
insert into lecture values(8, 'Science', 1, 'T1', 'Thursday', '11:00', '11:30');
insert into lecture values(8, 'English', 1, 'T4', 'Thursday', '11:30', '12:00');
```

```
insert into lecture values(9, 'Mathematics', 1, 'T1', 'Friday', '07:30', '08:00');
insert into lecture values(10, 'Mathematics', 1, 'T1', 'Friday', '08:00', '08:30');
```

```
insert into lecture values(5, 'Hindi', 1, 'T3', 'Friday', '08:30', '09:00');
insert into lecture values(5, 'Gujarati', 1, 'T2', 'Friday', '09:00', '09:30');
insert into lecture values(9, 'English', 1, 'T4', 'Friday', '10:00', '10:30');
insert into lecture values(9, 'Science', 1, 'T1', 'Friday', '10:30', '11:00');
insert into lecture values(10, 'Science', 1, 'T1', 'Friday', '11:00', '11:30');
insert into lecture values(10, 'English', 1, 'T4', 'Friday', '11:30', '12:00');
```

```
insert into lecture values(1, 'Mathematics', 2, 'T6', 'Monday', '07:30', '08:00');
insert into lecture values(2, 'Mathematics', 2, 'T6', 'Monday', '08:00', '08:30');
insert into lecture values(1, 'Gujarati', 2, 'T2', 'Monday', '08:30', '09:00');
insert into lecture values(1, 'Hindi', 2, 'T3', 'Monday', '09:00', '09:30');
insert into lecture values(1, 'Science', 2, 'T6', 'Monday', '10:00', '10:30');
insert into lecture values(1, 'English', 2, 'T4', 'Monday', '10:30', '11:00');
insert into lecture values(2, 'English', 2, 'T4', 'Monday', '11:00', '11:30');
insert into lecture values(2, 'Science', 2, 'T6', 'Monday', '11:30', '12:00');
```

```
insert into lecture values(3, 'Mathematics', 2, 'T6', 'Tuesday', '07:30', '08:00');
insert into lecture values(4, 'Mathematics', 2, 'T6', 'Tuesday', '08:00', '08:30');
insert into lecture values(2, 'Gujarati', 2, 'T2', 'Tuesday', '08:30', '09:00');
insert into lecture values(2, 'Hindi', 2, 'T3', 'Tuesday', '09:00', '09:30');
insert into lecture values(3, 'Science', 2, 'T6', 'Tuesday', '10:00', '10:30');
insert into lecture values(3, 'English', 2, 'T4', 'Tuesday', '10:30', '11:00');
insert into lecture values(4, 'English', 2, 'T4', 'Tuesday', '11:00', '11:30');
insert into lecture values(4, 'Science', 2, 'T6', 'Tuesday', '11:30', '12:00');
```

```
insert into lecture values(5, 'Mathematics', 2, 'T6', 'Wednesday', '07:30', '08:00');
insert into lecture values(6, 'Mathematics', 2, 'T6', 'Wednesday', '08:00', '08:30');
insert into lecture values(3, 'Gujarati', 2, 'T2', 'Wednesday', '08:30', '09:00');
```

insert into lecture values(3, 'Hindi', 2, 'T3', 'Wednesday', '09:00', '09:30');
insert into lecture values(5, 'Science', 2, 'T6', 'Wednesday', '10:00', '10:30');
insert into lecture values(5, 'English', 2, 'T4', 'Wednesday', '10:30', '11:00');
insert into lecture values(6, 'English', 2, 'T4', 'Wednesday', '11:00', '11:30');
insert into lecture values(6, 'Science', 2, 'T6', 'Wednesday', '11:30', '12:00');

insert into lecture values(7, 'Mathematics', 2, 'T6', 'Thursday', '07:30', '08:00');
insert into lecture values(8, 'Mathematics', 2, 'T6', 'Thursday', '08:00', '08:30');
insert into lecture values(4, 'Gujarati', 2, 'T2', 'Thursday', '08:30', '09:00');
insert into lecture values(4, 'Hindi', 2, 'T3', 'Thursday', '09:00', '09:30');
insert into lecture values(7, 'Science', 2, 'T6', 'Thursday', '10:00', '10:30');
insert into lecture values(7, 'English', 2, 'T4', 'Thursday', '10:30', '11:00');
insert into lecture values(8, 'English', 2, 'T4', 'Thursday', '11:00', '11:30');
insert into lecture values(8, 'Science', 2, 'T6', 'Thursday', '11:30', '12:00');

insert into lecture values(9, 'Mathematics', 2, 'T6', 'Friday', '07:30', '08:00');
insert into lecture values(10, 'Mathematics', 2, 'T6', 'Friday', '08:00', '08:30');
insert into lecture values(5, 'Gujarati', 2, 'T2', 'Friday', '08:30', '09:00');
insert into lecture values(5, 'Hindi', 2, 'T3', 'Friday', '09:00', '09:30');
insert into lecture values(9, 'Science', 2, 'T6', 'Friday', '10:00', '10:30');
insert into lecture values(9, 'English', 2, 'T4', 'Friday', '10:30', '11:00');
insert into lecture values(10, 'English', 2, 'T4', 'Friday', '11:00', '11:30');
insert into lecture values(10, 'Science', 2, 'T6', 'Friday', '11:30', '12:00');

insert into lecture values(1, 'Hindi', 3, 'T3', 'Monday', '07:30', '08:00');
insert into lecture values(1, 'Gujarati', 3, 'T2', 'Monday', '08:00', '08:30');
insert into lecture values(1, 'Social Science', 3, 'T4', 'Monday', '08:30', '09:00');

insert into lecture values(1, 'English', 3, 'T4', 'Monday', '09:00', '09:30');
insert into lecture values(1, 'Mathematics', 3, 'T1', 'Monday', '10:00', '10:30');
insert into lecture values(2, 'Mathematics', 3, 'T6', 'Monday', '10:30', '11:00');
insert into lecture values(1, 'Science', 3, 'T5', 'Monday', '11:00', '11:30');
insert into lecture values(2, 'Science', 3, 'T5', 'Monday', '11:30', '12:00');

insert into lecture values(2, 'Hindi', 3, 'T3', 'Tuesday', '07:30', '08:00');
insert into lecture values(2, 'Gujarati', 3, 'T2', 'Tuesday', '08:00', '08:30');
insert into lecture values(2, 'Social Science', 3, 'T4', 'Tuesday', '08:30', '09:00');
insert into lecture values(2, 'English', 3, 'T4', 'Tuesday', '09:00', '09:30');
insert into lecture values(3, 'Mathematics', 3, 'T1', 'Tuesday', '10:00', '10:30');
insert into lecture values(4, 'Mathematics', 3, 'T6', 'Tuesday', '10:30', '11:00');
insert into lecture values(3, 'Science', 3, 'T5', 'Tuesday', '11:00', '11:30');
insert into lecture values(4, 'Science', 3, 'T5', 'Tuesday', '11:30', '12:00');

insert into lecture values(3, 'Hindi', 3, 'T3', 'Wednesday', '07:30', '08:00');
insert into lecture values(3, 'Gujarati', 3, 'T2', 'Wednesday', '08:00', '08:30');
insert into lecture values(3, 'Social Science', 3, 'T4', 'Wednesday', '08:30', '09:00');
insert into lecture values(3, 'English', 3, 'T4', 'Wednesday', '09:00', '09:30');
insert into lecture values(5, 'Mathematics', 3, 'T1', 'Wednesday', '10:00', '10:30');
insert into lecture values(6, 'Mathematics', 3, 'T6', 'Wednesday', '10:30', '11:00');
insert into lecture values(5, 'Science', 3, 'T5', 'Wednesday', '11:00', '11:30');
insert into lecture values(6, 'Science', 3, 'T5', 'Wednesday', '11:30', '12:00');

insert into lecture values(4, 'Hindi', 3, 'T3', 'Thursday', '07:30', '08:00');
insert into lecture values(4, 'Gujarati', 3, 'T2', 'Thursday', '08:00', '08:30');
insert into lecture values(4, 'Social Science', 3, 'T4', 'Thursday', '08:30', '09:00');
insert into lecture values(4, 'English', 3, 'T4', 'Thursday', '09:00', '09:30');

insert into lecture values(7, 'Mathematics', 3, 'T1', 'Thursday', '10:00', '10:30');

insert into lecture values(8, 'Mathematics', 3, 'T6', 'Thursday', '10:30', '11:00');

insert into lecture values(7, 'Science', 3, 'T5', 'Thursday', '11:00', '11:30');

insert into lecture values(8, 'Science', 3, 'T5', 'Thursday', '11:30', '12:00');

insert into lecture values(5, 'Hindi', 3, 'T3', 'Friday', '07:30', '08:00');

insert into lecture values(5, 'Gujarati', 3, 'T2', 'Friday', '08:00', '08:30');

insert into lecture values(5, 'Social Science', 3, 'T4', 'Friday', '08:30', '09:00');

insert into lecture values(5, 'English', 3, 'T4', 'Friday', '09:00', '09:30');

insert into lecture values(9, 'Mathematics', 3, 'T1', 'Friday', '10:00', '10:30');

insert into lecture values(10, 'Mathematics', 3, 'T6', 'Friday', '10:30', '11:00');

insert into lecture values(9, 'Science', 3, 'T5', 'Friday', '11:00', '11:30');

insert into lecture values(10, 'Science', 3, 'T5', 'Friday', '11:30', '12:00');

insert into lecture values(1, 'Hindi', 4, 'T2', 'Monday', '07:30', '08:00');

insert into lecture values(1, 'Gujarati', 4, 'T3', 'Monday', '08:00', '08:30');

insert into lecture values(1, 'Social Science', 4, 'T5', 'Monday', '08:30', '09:00');

insert into lecture values(1, 'English', 4, 'T5', 'Monday', '09:00', '09:30');

insert into lecture values(1, 'Mathematics', 4, 'T2', 'Monday', '10:00', '10:30');

insert into lecture values(2, 'Mathematics', 4, 'T2', 'Monday', '10:30', '11:00');

insert into lecture values(1, 'Science and Technology', 4, 'T4', 'Monday', '11:00', '11:30');

insert into lecture values(2, 'Science and Technology', 4, 'T6', 'Monday', '11:30', '12:00');

insert into lecture values(2, 'Hindi', 4, 'T2', 'Tuesday', '07:30', '08:00');

insert into lecture values(2, 'Gujarati', 4, 'T3', 'Tuesday', '08:00', '08:30');

insert into lecture values(2, 'Social Science', 4, 'T5', 'Tuesday', '08:30', '09:00');

insert into lecture values(2, 'English', 4, 'T5', 'Tuesday', '09:00', '09:30');

insert into lecture values(3, 'Mathematics', 4, 'T2', 'Tuesday', '10:00', '10:30');

insert into lecture values(4, 'Mathematics', 4, 'T2', 'Tuesday', '10:30', '11:00');
insert into lecture values(3, 'Science and Technology', 4, 'T4', 'Tuesday', '11:00', '11:30');
insert into lecture values(4, 'Science and Technology', 4, 'T6', 'Tuesday', '11:30', '12:00');

insert into lecture values(3, 'Hindi', 4, 'T2', 'Wednesday', '07:30', '08:00');
insert into lecture values(3, 'Gujarati', 4, 'T3', 'Wednesday', '08:00', '08:30');
insert into lecture values(3, 'Social Science', 4, 'T5', 'Wednesday', '08:30', '09:00');
insert into lecture values(3, 'English', 4, 'T5', 'Wednesday', '09:00', '09:30');
insert into lecture values(5, 'Mathematics', 4, 'T2', 'Wednesday', '10:00', '10:30');
insert into lecture values(6, 'Mathematics', 4, 'T2', 'Wednesday', '10:30', '11:00');
insert into lecture values(5, 'Science and Technology', 4, 'T4', 'Wednesday', '11:00', '11:30');
insert into lecture values(6, 'Science and Technology', 4, 'T6', 'Wednesday', '11:30', '12:00');

insert into lecture values(4, 'Hindi', 4, 'T2', 'Thursday', '07:30', '08:00');
insert into lecture values(4, 'Gujarati', 4, 'T3', 'Thursday', '08:00', '08:30');
insert into lecture values(4, 'Social Science', 4, 'T5', 'Thursday', '08:30', '09:00');
insert into lecture values(4, 'English', 4, 'T5', 'Thursday', '09:00', '09:30');
insert into lecture values(7, 'Mathematics', 4, 'T2', 'Thursday', '10:00', '10:30');
insert into lecture values(8, 'Mathematics', 4, 'T2', 'Thursday', '10:30', '11:00');
insert into lecture values(7, 'Science and Technology', 4, 'T4', 'Thursday', '11:00', '11:30');
insert into lecture values(8, 'Science and Technology', 4, 'T6', 'Thursday', '11:30', '12:00');

insert into lecture values(5, 'Hindi', 4, 'T2', 'Friday', '07:30', '08:00');
insert into lecture values(5, 'Gujarati', 4, 'T3', 'Friday', '08:00', '08:30');
insert into lecture values(5, 'Social Science', 4, 'T5', 'Friday', '08:30', '09:00');
insert into lecture values(5, 'English', 4, 'T5', 'Friday', '09:00', '09:30');
insert into lecture values(9, 'Mathematics', 4, 'T2', 'Friday', '10:00', '10:30');
insert into lecture values(10, 'Mathematics', 4, 'T3', 'Friday', '10:30', '11:00');

insert into lecture values(9, 'Science and Technology', 4, 'T4', 'Friday', '11:00', '11:30');

insert into lecture values(10, 'Science and Technology', 4, 'T6', 'Friday', '11:30', '12:00');

	LECTURE_NO	SUBJECT_NAME	STANDARD_NO	TEACHER_ID	DAY	START_TIME	END_TIME
1	1	Mathematics	1	T1	Monday	07:30	08:00
2	2	Mathematics	1	T1	Monday	08:00	08:30
3	1	Hindi	1	T3	Monday	08:30	09:00
4	1	Gujarati	1	T2	Monday	09:00	09:30
5	1	English	1	T4	Monday	10:00	10:30
6	1	Science	1	T1	Monday	10:30	11:00
7	2	Science	1	T1	Monday	11:00	11:30
8	2	English	1	T4	Monday	11:30	12:00
9	3	Mathematics	1	T1	Tuesday	07:30	08:00
10	4	Mathematics	1	T1	Tuesday	08:00	08:30
11	2	Hindi	1	T3	Tuesday	08:30	09:00
12	2	Gujarati	1	T2	Tuesday	09:00	09:30
13	3	English	1	T4	Tuesday	10:00	10:30
14	3	Science	1	T1	Tuesday	10:30	11:00
15	4	Science	1	T1	Tuesday	11:00	11:30
16	4	English	1	T4	Tuesday	11:30	12:00
17	5	Mathematics	1	T1	Wednesday	07:30	08:00
18	6	Mathematics	1	T1	Wednesday	08:00	08:30
19	3	Hindi	1	T3	Wednesday	08:30	09:00
20	3	Gujarati	1	T2	Wednesday	09:00	09:30
21	5	English	1	T4	Wednesday	10:00	10:30
22	5	Science	1	T1	Wednesday	10:30	11:00
23	6	Science	1	T1	Wednesday	11:00	11:30
24	6	English	1	T4	Wednesday	11:30	12:00
25	7	Mathematics	1	T1	Thursday	07:30	08:00
26	8	Mathematics	1	T1	Thursday	08:00	08:30

	LECTURE_NO	SUBJECT_NAME	STANDARD_NO	TEACHER_ID	DAY	START_TIME	END_TIME
27	4	Hindi	1 T3		Thursday	08:30	09:00
28	4	Gujarati	1 T2		Thursday	09:00	09:30
29	7	English	1 T4		Thursday	10:00	10:30
30	7	Science	1 T1		Thursday	10:30	11:00
31	8	Science	1 T1		Thursday	11:00	11:30
32	8	English	1 T4		Thursday	11:30	12:00
33	9	Mathematics	1 T1		Friday	07:30	08:00
34	10	Mathematics	1 T1		Friday	08:00	08:30
35	5	Hindi	1 T3		Friday	08:30	09:00
36	5	Gujarati	1 T2		Friday	09:00	09:30
37	9	English	1 T4		Friday	10:00	10:30
38	9	Science	1 T1		Friday	10:30	11:00
39	10	Science	1 T1		Friday	11:00	11:30
40	10	English	1 T4		Friday	11:30	12:00
41	1	Mathematics	2 T6		Monday	07:30	08:00
42	2	Mathematics	2 T6		Monday	08:00	08:30
43	1	Gujarati	2 T2		Monday	08:30	09:00
44	1	Hindi	2 T3		Monday	09:00	09:30
45	1	Science	2 T6		Monday	10:00	10:30
46	1	English	2 T4		Monday	10:30	11:00
47	2	English	2 T4		Monday	11:00	11:30
48	2	Science	2 T6		Monday	11:30	12:00
49	3	Mathematics	2 T6		Tuesday	07:30	08:00
50	4	Mathematics	2 T6		Tuesday	08:00	08:30
51	2	Gujarati	2 T2		Tuesday	08:30	09:00
52	2	Hindi	2 T3		Tuesday	09:00	09:30

	LECTURE_NO	SUBJECT_NAME	STANDARD_NO	TEACHER_ID	DAY	START_TIME	END_TIME
53	3	Science	2 T6		Tuesday	10:00	10:30
54	3	English	2 T4		Tuesday	10:30	11:00
55	4	English	2 T4		Tuesday	11:00	11:30
56	4	Science	2 T6		Tuesday	11:30	12:00
57	5	Mathematics	2 T6		Wednesday	07:30	08:00
58	6	Mathematics	2 T6		Wednesday	08:00	08:30
59	3	Gujarati	2 T2		Wednesday	08:30	09:00
60	3	Hindi	2 T3		Wednesday	09:00	09:30
61	5	Science	2 T6		Wednesday	10:00	10:30
62	5	English	2 T4		Wednesday	10:30	11:00
63	6	English	2 T4		Wednesday	11:00	11:30
64	6	Science	2 T6		Wednesday	11:30	12:00
65	7	Mathematics	2 T6		Thursday	07:30	08:00
66	8	Mathematics	2 T6		Thursday	08:00	08:30
67	4	Gujarati	2 T2		Thursday	08:30	09:00
68	4	Hindi	2 T3		Thursday	09:00	09:30
69	7	Science	2 T6		Thursday	10:00	10:30
70	7	English	2 T4		Thursday	10:30	11:00
71	8	English	2 T4		Thursday	11:00	11:30
72	8	Science	2 T6		Thursday	11:30	12:00
73	9	Mathematics	2 T6		Friday	07:30	08:00
74	10	Mathematics	2 T6		Friday	08:00	08:30
75	5	Gujarati	2 T2		Friday	08:30	09:00
76	5	Hindi	2 T3		Friday	09:00	09:30
77	9	Science	2 T6		Friday	10:00	10:30
78	9	English	2 T4		Friday	10:30	11:00

	LECTURE_NO	SUBJECT_NAME	STANDARD_NO	TEACHER_ID	DAY	START_TIME	END_TIME
79	10	English	2	T4	Friday	11:00	11:30
80	10	Science	2	T6	Friday	11:30	12:00
81	1	Hindi	3	T3	Monday	07:30	08:00
82	1	Gujarati	3	T2	Monday	08:00	08:30
83	1	Social Sci...	3	T4	Monday	08:30	09:00
84	1	English	3	T4	Monday	09:00	09:30
85	1	Mathematics	3	T1	Monday	10:00	10:30
86	2	Mathematics	3	T6	Monday	10:30	11:00
87	1	Science	3	T5	Monday	11:00	11:30
88	2	Science	3	T5	Monday	11:30	12:00
89	2	Hindi	3	T3	Tuesday	07:30	08:00
90	2	Gujarati	3	T2	Tuesday	08:00	08:30
91	2	Social Sci...	3	T4	Tuesday	08:30	09:00
92	2	English	3	T4	Tuesday	09:00	09:30
93	3	Mathematics	3	T1	Tuesday	10:00	10:30
94	4	Mathematics	3	T6	Tuesday	10:30	11:00
95	3	Science	3	T5	Tuesday	11:00	11:30
96	4	Science	3	T5	Tuesday	11:30	12:00
97	3	Hindi	3	T3	Wednesday	07:30	08:00
98	3	Gujarati	3	T2	Wednesday	08:00	08:30
99	3	Social Sci...	3	T4	Wednesday	08:30	09:00
100	3	English	3	T4	Wednesday	09:00	09:30
101	5	Mathematics	3	T1	Wednesday	10:00	10:30
102	6	Mathematics	3	T6	Wednesday	10:30	11:00
103	5	Science	3	T5	Wednesday	11:00	11:30
104	6	Science	3	T5	Wednesday	11:30	12:00

	LECTURE_NO	SUBJECT_NAME	STANDARD_NO	TEACHER_ID	DAY	START_TIME	END_TIME
105	4	Hindi	3 T3		Thursday	07:30	08:00
106	4	Gujarati	3 T2		Thursday	08:00	08:30
107	4	Social Sci...	3 T4		Thursday	08:30	09:00
108	4	English	3 T4		Thursday	09:00	09:30
109	7	Mathematics	3 T1		Thursday	10:00	10:30
110	8	Mathematics	3 T6		Thursday	10:30	11:00
111	7	Science	3 T5		Thursday	11:00	11:30
112	8	Science	3 T5		Thursday	11:30	12:00
113	5	Hindi	3 T3		Friday	07:30	08:00
114	5	Gujarati	3 T2		Friday	08:00	08:30
115	5	Social Sci...	3 T4		Friday	08:30	09:00
116	5	English	3 T4		Friday	09:00	09:30
117	9	Mathematics	3 T1		Friday	10:00	10:30
118	10	Mathematics	3 T6		Friday	10:30	11:00
119	9	Science	3 T5		Friday	11:00	11:30
120	10	Science	3 T5		Friday	11:30	12:00
121	1	Hindi	4 T2		Monday	07:30	08:00
122	1	Gujarati	4 T3		Monday	08:00	08:30
123	1	Social Sci...	4 T5		Monday	08:30	09:00
124	1	English	4 T5		Monday	09:00	09:30
125	1	Mathematics	4 T2		Monday	10:00	10:30
126	2	Mathematics	4 T2		Monday	10:30	11:00
127	1	Science an...	4 T4		Monday	11:00	11:30
128	2	Science an...	4 T6		Monday	11:30	12:00
129	2	Hindi	4 T2		Tuesday	07:30	08:00
130	2	Gujarati	4 T3		Tuesday	08:00	08:30

	LECTURE_NO	SUBJECT_NAME	STANDARD_NO	TEACHER_ID	DAY	START_TIME	END_TIME
131	2	Social Sci...	4	T5	Tuesday	08:30	09:00
132	2	English	4	T5	Tuesday	09:00	09:30
133	3	Mathematics	4	T2	Tuesday	10:00	10:30
134	4	Mathematics	4	T2	Tuesday	10:30	11:00
135	3	Science an...	4	T4	Tuesday	11:00	11:30
136	4	Science an...	4	T6	Tuesday	11:30	12:00
137	3	Hindi	4	T2	Wednesday	07:30	08:00
138	3	Gujarati	4	T3	Wednesday	08:00	08:30
139	3	Social Sci...	4	T5	Wednesday	08:30	09:00
140	3	English	4	T5	Wednesday	09:00	09:30
141	5	Mathematics	4	T2	Wednesday	10:00	10:30
142	6	Mathematics	4	T2	Wednesday	10:30	11:00
143	5	Science an...	4	T4	Wednesday	11:00	11:30
144	6	Science an...	4	T6	Wednesday	11:30	12:00
145	4	Hindi	4	T2	Thursday	07:30	08:00
146	4	Gujarati	4	T3	Thursday	08:00	08:30
147	4	Social Sci...	4	T5	Thursday	08:30	09:00
148	4	English	4	T5	Thursday	09:00	09:30
149	7	Mathematics	4	T2	Thursday	10:00	10:30
150	8	Mathematics	4	T2	Thursday	10:30	11:00
151	7	Science an...	4	T4	Thursday	11:00	11:30
152	8	Science an...	4	T6	Thursday	11:30	12:00
153	5	Hindi	4	T2	Friday	07:30	08:00
154	5	Gujarati	4	T3	Friday	08:00	08:30
155	5	Social Sci...	4	T5	Friday	08:30	09:00
156	5	English	4	T5	Friday	09:00	09:30
157	9	Mathematics	4	T2	Friday	10:00	10:30
158	10	Mathematics	4	T3	Friday	10:30	11:00
159	9	Science an...	4	T4	Friday	11:00	11:30
160	10	Science an...	4	T6	Friday	11:30	12:00

Working Day

Create

```
create table working_day
```

```
(
```

```
    day_no number(3),
```

```
    date_ date not null unique,
```

```
    primary key(day_no)
```

```
);
```

Insert

```
insert into working_day values(1,'01-jun-2019');
```

```
insert into working_day values(2,'02-jun-2019');
```

```
insert into working_day values(3,'03-jun-2019');
```

```
insert into working_day values(4,'04-jun-2019');
```

```
insert into working_day values(5,'05-jun-2019');
```

	DAY_NO	DATE_
1	1	01-06-19
2	2	02-06-19
3	3	03-06-19
4	4	04-06-19
5	5	05-06-19

Attendance

Create

```
create table attendance
```

```
(
```

```
    day_no number(3),
```

```
person_id varchar(10),
status varchar(15) check (status in('Present', 'Absent')),
primary key(day_no, person_id),
foreign key(day_no) references working_day,
foreign key(person_id) references person
);
```

Insert

```
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0001','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0002','Absent');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0003','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0004','Absent');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0005','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0006','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0007','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0008','Absent');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0009','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0010','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0011','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0012','Absent');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0013','Absent');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0014','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0015','Absent');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0016','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0017','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0018','Absent');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0019','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0020','Present');
Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0021','Present');
```


Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0022','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0023','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0024','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0025','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0026','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0027','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0028','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0029','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0030','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0031','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0032','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0033','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0034','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0035','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0036','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0037','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0038','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0039','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0040','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0041','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0042','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0043','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0044','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0045','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0046','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0047','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0048','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0049','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (1,'P0050','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0001','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0002','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0003','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0004','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0005','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0006','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0007','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0008','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0009','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0010','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0011','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0012','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0013','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0014','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0015','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0016','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0017','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0018','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0019','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0020','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0021','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0022','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0023','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0024','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0025','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0026','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0027','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0028','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0029','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0030','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0031','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0032','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0033','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0034','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0035','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0036','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0037','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0038','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0039','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0040','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0041','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0042','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0043','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0044','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0045','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0046','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0047','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0048','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0049','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (2,'P0050','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0001','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0002','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0003','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0004','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0005','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0006','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0007','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0008','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0009','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0010','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0011','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0012','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0013','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0014','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0015','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0016','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0017','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0018','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0019','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0020','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0021','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0022','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0023','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0024','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0025','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0026','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0027','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0028','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0029','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0030','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0031','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0032','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0033','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0034','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0035','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0036','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0037','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0038','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0039','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0040','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0041','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0042','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0043','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0044','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0045','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0046','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0047','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0048','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0049','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (3,'P0050','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0001','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0002','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0003','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0004','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0005','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0006','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0007','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0008','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0009','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0010','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0011','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0012','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0013','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0014','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0015','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0016','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0017','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0018','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0019','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0020','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0021','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0022','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0023','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0024','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0025','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0026','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0027','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0028','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0029','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0030','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0031','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0032','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0033','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0034','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0035','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0036','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0037','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0038','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0039','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0040','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0041','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0042','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0043','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0044','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0045','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0046','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0047','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0048','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0049','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (4,'P0050','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0001','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0002','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0003','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0004','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0005','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0006','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0007','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0008','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0009','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0010','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0011','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0012','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0013','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0014','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0015','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0016','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0017','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0018','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0019','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0020','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0021','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0022','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0023','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0024','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0025','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0026','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0027','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0028','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0029','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0030','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0031','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0032','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0033','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0034','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0035','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0036','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0037','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0038','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0039','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0040','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0041','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0042','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0043','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0044','Present');

Insert into ATTENDANCE (DAY NO,PERSON ID,STATUS) values (5,'P0045','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0046','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0047','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0048','Present');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0049','Absent');

Insert into ATTENDANCE (DAY_NO,PERSON_ID,STATUS) values (5,'P0050','Absent');

	DAY_NO	PERSON_ID	STATUS
1	1	P0001	Present
2	1	P0002	Absent
3	1	P0003	Present
4	1	P0004	Absent
5	1	P0005	Present
6	1	P0006	Present
7	1	P0007	Present
8	1	P0008	Absent
9	1	P0009	Present
10	1	P0010	Present
11	1	P0011	Present
12	1	P0012	Absent
13	1	P0013	Absent

Person Mobile

Create

```
CREATE TABLE person_mobile(  
    person_id varchar(10),  
    mobile_no number(10, 0) not null,  
    foreign key(person_id) REFERENCES person(person_id),  
    primary key(person_id, mobile_no)  
);
```

Insert

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0001',9553074646);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0002',9638057031);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0003',8138736952);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0004',8531197969);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0005',9583812584);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0006',9011249400);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0007',6710889329);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0008',9680047496);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0009',8962702365);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0010',9106369704);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0011',7762432744);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0012',7123005087);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0013',7849154999);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0014',9458602193);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0015',7207543413);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0016',8816679981);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0017',8371513326);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0018',9099882181);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0019',7519945390);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0020',9878700428);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0021',6916927805);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0022',7709588290);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0023',8640412081);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0024',8761085515);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0025',7650690731);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0026',8273103938);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0027',8792601171);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0028',9451081179);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0029',7477337500);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0030',7127920824);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0031',9519015364);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0032',7260811259);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0033',9846259640);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0034',7435568897);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0035',7016575585);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0036',8566385570);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0037',9170270463);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0038',9944874306);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0039',7368225643);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0040',7833172416);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0041',9785101199);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0042',7646152078);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0043',6880614712);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0044',9748023586);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0045',8267619643);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0046',7065129100);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0047',8978934949);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0048',8469578542);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0049',7209797377);

Insert into PERSON_MOBILE (PERSON_ID,MOBILE_NO) values ('P0050',7933879323);

	PERSON_ID	MOBILE_NO
1	P0001	9553074646
2	P0002	9638057031
3	P0003	8138736952
4	P0004	8531197969
5	P0005	9583812584
6	P0006	9011249400
7	P0007	6710889329
8	P0008	9680047496
9	P0009	8962702365
10	P0010	9106369704
11	P0011	7762432744
12	P0012	7123005087
13	P0013	7849154999
14	P0014	9458602193
15	P0015	7207543413
16	P0016	8816679981
17	P0017	8371513326
18	P0018	9099882181
19	P0019	7519945390
20	P0020	9878700428
21	P0021	6916927805
22	P0022	7709588290
23	P0023	8640412081
24	P0024	8761085515
25	P0025	7650690731
26	P0026	8273103938

27	P0027	8792601171
28	P0028	9451081179
29	P0029	7477337500
30	P0030	7127920824
31	P0031	9519015364
32	P0032	7260811259
33	P0033	9846259640
34	P0034	7435568897
35	P0035	7016575585
36	P0036	8566385570
37	P0037	9170270463
38	P0038	9944874306
39	P0039	7368225643
40	P0040	7833172416
41	P0041	9785101199
42	P0042	7646152078
43	P0043	6880614712
44	P0044	9748023586
45	P0045	8267619643
46	P0046	7065129100
47	P0047	8978934949
48	P0048	8469578542
49	P0049	7209797377
50	P0050	7933879323

Queries (DQL)

Find number of Students

Eg: Find number of students of standard 3rd.

select count(*) as student_in_standard1 from (student natural join enrollment) where standard_no=1;

STUDENT_IN_STANDARD1
6

Find lecture timings

Eg. 1: Find when is the second mathematics lecture of the week in standard 2nd.

select day, start_time, end_time from lecture where lecture_no =2 and subject_name='Mathematics' and standard_no=2;

Eg. 2: Find start time and end time of Hindi lecture in standard 2nd on Tuesday.

select start_time,end_time from lecture where subject_name='Hindi' and standard_no=2 and day='Tuesday';

START_TIME	END_TIME
09:00	09:30

DAY	START_TIME	END_TIME
Monday	08:00	08:30

Find classroom

Eg: Find the classroom allocated to standard 3rd.

select room_no,building_no from standard where standard_no=3;

ROOM_NO	BUILDING_NO
3	1

Find classroom capacity

Eg: Find the capacity of classroom in which standard 3rd studies.

select capacity from (standard natural join classroom) where standard_no =3;

CAPACITY
30

Find teacher

Eg: Find the name of teachers who teach Hindi in standard 2nd.

select distinct F_name||' '||M_name||' '||L_name as Hindi_Std2_Teacher from (lecture natural join teacher natural join employee natural join person) where subject_name='Hindi' and standard_no=2;

HINDI_STD2_TEACHER
Gohel Akshay Rajendrakumar

Find students

Eg: Find names of students who study in standard 1st.

select F_name||' '||M_name||' '||L_name as Student_Std1 from (person natural join student natural join enrollment) where standard_no=1;

STUDENT_STD1
1 Meet Ramesh Patel
2 Maharshi Dipak Jani
3 Amatulla Akbari Gajipurwala
4 Nihar Vipul Rakholiya
5 Dev Dipesh Patel
6 Het Brijesh Parikh

Find salary of employees

Eg: Find salary of all teachers with their names.

`select F_name||' '||M_name||' '||L_name as Teacher_Name, Salary from (person natural join employee natural join teacher);`

TEACHER_NAME	SALARY
Ganjawala Samarth Sanjaybhai	40000
Garasia Nrushans Amrutbhai	40000
Gohel Akshay Rajendrakumar	40000
Gohil Nana Gambhirbhai	40000
Gohil Sumit Jitendrakumar	40000
Jambudiya Heet Ketanbhai	40000

Find student's enrollent

Eg: Find the enrollment of student with student ID: S12.

`select enrolled_date, standard_no, roll_no from (enrollment) where student_id='S12';`

ENROLLED_DATE	STANDARD_NO	ROLL_NO
08-05-23	2	6

Find time table

Eg: Find time table of standard 1st on Monday.

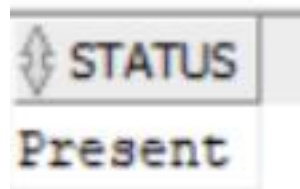
`select lecture_no,subject_name,standard_no,start_time,end_time from lecture where standard_no = 1 and day='Monday';`

LECTURE_NO	SUBJECT_NAME	STANDARD_NO	START_TIME	END_TIME
1	Mathematics	1	07:30	08:00
2	Mathematics	1	08:00	08:30
1	Hindi	1	08:30	09:00
1	Gujarati	1	09:00	09:30
1	English	1	10:00	10:30
1	Science	1	10:30	11:00
2	Science	1	11:00	11:30
2	English	1	11:30	12:00

Find attendance

Eg. 1: Find whether Student with student id S4 was present on 3rd June, 2019 or not.

select status from (student natural join person natural join attendance) where day_no=(select day_no from working_day where date_='03-JUN-2019') and student_id='S4';



Eg. 2: Find whether roll number 3 of standard 2nd was present on 3rd June, 2019 or not.

select status from attendance where person_id=

(

select person_id from student where student_id=

(

select student_id from enrollment where roll_no=3 and standard_no=2

)

) and day_no=

(

```
select day_no from working_day where date_='03-JUN-2019'  
);
```

STATUS
Present

Find mobile number

Eg: Find mobile number of student of standard 2nd with roll number 5.

Subquery method:

```
select mobile_no from person_mobile where person_id=  
(  
  select person_id from student where student_id=  
  (  
    select student_id from enrollment where roll_no=5 and standard_no=2  
  )  
);
```

Natural join method:

```
select mobile_no from enrollment natural join student natural join person natural join person_mobile  
where standard_no=2 and roll_no=5;
```

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4 English, Std. 3, GCERT
5 Science for beginners, GCERT
5 Social Science, Std. 3, GCERT

References

- Database System Concepts by Silberschatz, Korth and Sudarshan, Sixth Edition.
- Database Management System, Part I, course on Infosys Springboard (for concepts of normalization).
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01275806667282022456_shared/overview
- Oracle Database Express Edition (as a database service), and Oracle SQL Developer (as an SQL IDE).
- GitMind (for ER Diagram creation): <https://gitmind.com/>
- DBDiagram (for relational schema creation): <https://dbdiagram.io/>