```
-- Practical No.3 --
CREATE DATABASE ATHARVA;
USE ATHARVA;
CREATE TABLE HOTEL
Hotel_No int,
HName varchar(100),
City varchar(100),
PRIMARY KEY(Hotel_No)
);
CREATE TABLE ROOM
Room_No int,
Hotel_No int,
RType varchar(100),
Price int
);
CREATE TABLE BOOKING
Hotel_No int,
Guest_No int,
Date_From int,
Date_To int,
Room_No int
);
CREATE TABLE GUEST
Guest_No int,
Guest_Name varchar(100),
Guest_Address varchar(100),
PRIMARY KEY(Guest_No)
);
DESC HOTEL;
INSERT INTO HOTEL
```

```
VALUES
(01,'Damodar','Pune'),
(02, 'SilverOak', 'Mumbai'),
(03,'RKHotel','Pune');
INSERT INTO ROOM
VALUES
(07,01,'Luxary',1200),
(08,02,'Double',800),
(09,01,'Single',200),
(10,03,'Triple',1000);
INSERT INTO BOOKING
VALUES
(01,11,'07-08-23','10-08-23',07),
(01,12,'08-09-23','09-09-23',08),
(02,13,'10-09-23','12-09-23',09),
(03,14,'11-09-23','15-09-23',10);
INSERT INTO GUEST
VALUES
(11,'Arjun','Delhi'),
(12,'Dhananjay','Pune'),
(13,'Aakrit','Nagpur'),
(14,'Rohit','Nashik');
SELECT * FROM ROOM;
SELECT * FROM HOTEL;
SELECT * FROM BOOKING;
SELECT * FROM GUEST;
-- New Day-- use
ATHARVA;
ALTER TABLE booking
MODIFY COLUMN DATE_FROM DATE, MODIFY COLUMN DATE_TO DATE;
-- Updating Values in Table --
UPDATE booking
SET DATE FROM = '2023-08-07'
WHERE Guest_No=11;
```

```
UPDATE booking
SET DATE_FROM = '2023-09-08'
WHERE Guest No=12;
UPDATE booking
SET DATE FROM = '2023-09-10'
WHERE Guest No=13;
UPDATE booking
SET DATE_FROM = '2023-09-11'
WHERE Guest No=14;
UPDATE booking
SET DATE TO = '2023-08-10'
WHERE Guest No=11;
UPDATE booking
SET DATE TO = '2023-09-09'
WHERE Guest No=12;
UPDATE booking
SET DATE TO = '2023-09-12'
WHERE Guest No=13;
UPDATE booking
SET DATE_TO = '2023-09-15'
WHERE Guest_No=14;
ALTER TABLE booking
ADD foreign key (Guest_No) references guest(Guest_No);
-- -- -- Queries -- -- --
-- What is the total revenue per night from all double rooms?
SELECT SUM(Price) from room
WHERE RType ='Double';
-- List the details of all rooms at the Damodar Hotel, including the name of the guest staying in
the room if the room is occupied.
SELECT * from hotel h INNER JOIN booking b
ON h.Hotel No = b.Hotel No
INNER JOIN guest g
ON b.Guest No = g.Guest No
WHERE HName = 'Damodar';
```

- -- What is the average number of bookings for each hotel in September? SELECT Hotel_No,AVG(Room_No) as Room_Average FROM booking WHERE MONTH(DATE_FROM)>= 9 AND MONTH(DATE_FROM) <= 9 GROUP BY Hotel No;
- -- Create index on one of the field and show it's preformance in query CREATE INDEX index_Hotel on hotel(HName); Select * FROM hotel WHERE HName = 'Damodar';
- -- List full details of all hotels
 SELECT * from hotel h INNER JOIN booking b
 ON h.Hotel_No = b.Hotel_No
 INNER JOIN guest g
 ON b.Guest_No = g.Guest_No
 INNER JOIN room r on
 b.Room No = r.Room No;
- -- List full details of all hotels in Pune
 SELECT * from hotel h INNER JOIN booking b
 ON h.Hotel_No = b.Hotel_No
 INNER JOIN guest g
 ON b.Guest_No = g.Guest_No
 INNER JOIN room r on
 b.Room_No = r.Room_No
 WHERE City = 'Pune';
- -- Upadte the price of all rooms by 5% UPDATE room SET Price = Price + Price*0.05; select * from room;
- -- List the number of rooms in each hotel in Mumbai.
 Select h.HName, r.Room_No AS 'Rooms in Mumbai' FROM room r INNER JOIN hotel h ON h.Hotel_No = r.Hotel_No where r.Hotel_No = (SELECT Hotel_No FROM hotel
 WHERE City = 'Mumbai');
- -- List all Double or Single Rooms with a price below Rs.1000 per night in ASC order of price. SELECT h.HName,r.Room_No,r.Price FROM room r INNER JOIN hotel h
 ON h.Hotel_No = r.Hotel_No

WHERE RType ='Double' OR RType ='Single' AND Price <1000 ORDER BY Price ASC;