```sql
CREATE TABLE Students (
Student_RegId INTEGER PRIMARY KEY,
Student_name VARCHAR(100),
Student_section VARCHAR(100),
Student_Age INTEGER,
Student_CGPA FLOAT,
Student_City VARCHAR(100)
);
CREATE TABLE HostelDetail (
Hostel_id INTEGER PRIMARY KEY,
Hostel_name VARCHAR(100),
Hostel_block VARCHAR(100),
Room_no INTEGER,
Reg_id INTEGER FOREIGN KEY REFERENCES Students(Student_RegId)
);
INSERT INTO Students
( Student_RegId, Student_name, Student_section, Student_Age, Student_CGPA,
Student_City )
VALUES
(120, 'Tushar Sharma', 'JK201', 18, 8.07, 'New Delhi' ),
(121, 'Akriti Singh', 'CSE201', 19, 9.01, 'Shimla'),
(122, 'Muskan Thakur', 'JK202' , 19, 7.35, 'Lucknow'),
(123, 'Ritish Singh', 'CSE201', 20, 6.87, 'Bangalore'),
(124, 'Omkar Agrwal', 'ECE101', 17, 5.10, 'Mangalore'),
(125, 'Shivam Ahuja', 'CSE104', 25, 7.10, 'Kolkata'),
(126, 'Krishna Yadav', 'ECE105', 17, 8.20, 'Hyderabad'),
(127, 'Adnan Nwaja', 'JK101', 19, 7.35, 'Bhubaneswar'),
(128, 'Jon Harrington ', 'JK101', 20, 6.10, 'London'),
(129, 'Samanta Clarke', 'CSE102', 20, 8.55, 'New York'),
(130, 'Nitin Shina', 'JK202', 19, 9.01, 'Kolkata'),
(250, 'Ayushi Singh', 'JK202', 18, 7.23, 'Lucknow'),
(251, 'Adtiya Panday', 'CSE101', 19, 5.23, 'Lucknow'),
(252, 'Sarodiya Dutt', 'ECE102', 23, 6.32, 'Bhubaneswar'),
(253, 'Anjali Sharma', 'JK202', 24, 6.01, 'New York'),
(254, 'Tina Saroaj', 'CSE201', 19, 8.55, 'Kolkata'),
(255, 'Abhinav Singh', 'ECE105', 21, 7.12, 'Hyderabad'),
(260, 'Anushka Roy', 'CSE201', 21, 9.01, 'Mumbai'),
(265, 'Vandana Singh', 'JK101', 18, 6.50, 'Bangalore'),
(270, 'Amir Khan', 'ECE105', 19, 5.55, 'Hyderabad'),
(300, 'Priyanka Jonas ', 'CSE201', 18, 4.21, 'Hyderabad'),
(350, 'Shweta Yadav', 'CSE104', 22, 6.55, 'Mumbai'),
(400, 'Farhan Khan', 'JK101', 23, 7.21, 'Mumbai'),
(450, 'Elizabeth Winsor','CSE201', 19, 6.01, 'London');
Select * from Students;
Select * from HostelDetail;
C:\Users\nitin\AppData\Local\Temp\~vs6BF4.sql 2
select * from Students INNER JOIN HostelDetail ON
Students.Student_RegId=HostelDetail.Reg_id;
SELECT S.Student_name, S.Student_section, H.Hostel_block FROM Students as S
```

```sql
INNER JOIN
HostelDetail as H ON S.Student_RegId = H.Reg_id;
select * FROM Students as S
LEFT JOIN HostelDetail as H
ON S.Student_RegId = H.Reg_id;
select * FROM Students as S
RIGHT JOIN HostelDetail as H
ON S.Student_RegId = H.Reg_id;
drop table HostelDetail;
CREATE TABLE HostelDetail (
 Hostel_id INTEGER PRIMARY KEY,
 Hostel_name VARCHAR(100),
 Hostel_block VARCHAR(100),
 Room_no INTEGER,
 Reg_id INTEGER
);
INSERT INTO HostelDetail
( Hostel_id, Hostel_name, Hostel_block, Room_no, Reg_id )
VALUES
(1, 'Boys-Hostel-1', 'B1', 55, 120 ),
(2, 'Boys-Hostel-2', 'B2', 54, 121),
(3, 'Boys-Hostel-4', 'B4' ,61, 122),
(4, 'Girls-Hostel-1', 'G1', 62, 123),
(5, 'Boys-Hostel-3', 'B3', 51, 124),
(6, 'Boys-Hostel-4', 'B4', 69, 125),
(7, 'Boys-Hostel-3', 'B3', 75, 126),
(8, 'Girls-Hostel-2', 'G2', 76, 127),
(9, 'Girls-Hostel-3 ','G3', 77, 128),
(10, 'Girls-Hostel-1', 'G1', 98, 129),
(11, 'Boys-Hostel-3', 'B3', 21, 130),
(12, 'Boys-Hostel-4', 'G1', 22, 250),
(13, 'Boys-Hostel-3', 'G1', 23, 251),
(14, 'Girls-Hostel-1','G1', 24, 252),
(15, 'Boys-Hostel-4', 'G1', 25, 253),
(16, 'Boys-Hostel-4', 'G1', 26, 254),
(17, 'Girls-Hostel-1', 'G1', 27, 265),
(18, 'Girls-Hostel-1', 'G1', 28, 270),
(19, 'Girls-Hostel-5', 'G1', 28, 1500),
(20, 'Girls-Hostel-5', 'G1', 28, 1000),
(21, 'Boys-Hostel-3', 'B3', 29, 300)

SELECT * FROM HostelDetail;
SELECT * FROM Students
RIGHT JOIN HostelDetail
ON Students.Student_RegId = HostelDetail.Reg_id;
SELECT * FROM Students
FULL JOIN HostelDetail
ON Students.Student_RegId = HostelDetail.Reg_id
```

```sql
create table program_details(
            p_id int not null primary key,
            p_name varchar(70),
            section varchar(20),
            duration int,
            fee varchar(20),
            reg_no int,
            no_of_courses int);


insert into program_details
    values(101,'Artificial Intelligence Software
      Development','jk201',2,30000,1201,3),
        (103,'Computer Systems Technician ','jk201',3,40000,1211,1),
        (104,'Computer Programming','jk202',2,56000,1205,2),
        (105,'Human Resources Management','jk201',4,30000,1204,5),
        (106,'Artificial Intelligence Software
          Development','jk202',1,20000,1202,3),
        (107,'Human Resources Management','jk202',3,35000,1223,2);

select * from program_details;

select * FROM Students as S
LEFT JOIN program_details as P
ON S.Student_section = P.section
where S.Student_CGPA > 6;

Select * from HostelDetail;

SELECT program_details.p_name,COUNT(program_details.p_name)
FROM Students
INNER JOIN program_details
ON Students.Student_Section = program_details.section
group by program_details.p_name

select h.Room_no, p.p_name
from HostelDetail as h
inner join program_details as p
on h.Reg_id = p.reg_no

SELECT HostelDetail.Hostel_block, Students.Student_name
FROM HostelDetail
INNER JOIN Students
ON Students.Student_RegId = HostelDetail.Reg_id
WHERE Students.Student_City = 'New Delhi'

select h.Hostel_block, s.Student_name, pd.p_name
from HostelDetail as h inner join students as s
```

```sql
on h.reg_id=s.Student_RegId inner join program_details as pd
on pd.reg_no=s.Student_RegId
where s.Student_City='New Delhi';
```