

## Assignment on SQL

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Code :

use KANINIBATCH2

```
create table Flight_details(Flight_id varchar(20)primary key,Flight_name  
varchar(20),Flight_source varchar(20),Flight_destination varchar(20),Flight_date  
date,Flight_seat int)
```

```
create table passengers(pass_id varchar(20) primary key,pass_name varchar(20),DOB  
date,Address varchar(20),Phone bigint,Email varchar(20))
```

```
create table booking(booking_id varchar(20) primary key,flightid varchar(20) references  
Flight_details(Flight_id),Booking_date date,Amt int)
```

```
create table booking_details(Bookingid varchar(20) references booking(booking_id),  
Passid varchar(20)references passengers(pass_id),
```

```
CONSTRAINT PK_Bookd PRIMARY KEY (Bookingid, Passid))
```

```
INSERT INTO Flight_details VALUES ('FL001', 'Air India', 'Mumbai', 'Delhi', '2025-08-01',  
150);
```

```
INSERT INTO Flight_details VALUES ('FL002', 'IndiGo', 'Bengaluru', 'Chennai', '2025-08-  
02', 180);
```

```
INSERT INTO Flight_details VALUES ('FL003', 'Vistara', 'Kolkata', 'Hyderabad', '2025-08-  
03', 120);
```

```
INSERT INTO Flight_details VALUES ('FL004', 'SpiceJet', 'Goa', 'Mumbai', '2025-08-04',  
160);
```

```
INSERT INTO Flight_details VALUES ('FL005', 'Akasa Air', 'Delhi', 'Pune', '2025-08-05',  
140);
```

```
INSERT INTO Flight_details VALUES ('FL006', 'Air India', 'Chennai', 'Kolkata', '2025-08-06',  
170);
```

```
INSERT INTO Flight_details VALUES ('FL007', 'IndiGo', 'Hyderabad', 'Ahmedabad', '2025-  
08-07', 130);
```

```
INSERT INTO Flight_details VALUES ('FL008', 'Vistara', 'Mumbai', 'Bengaluru', '2025-08-  
08', 190);
```

```
INSERT INTO Flight_details VALUES ('FL009', 'SpiceJet', 'Kochi', 'Delhi', '2025-08-09', 110);
```

```
INSERT INTO Flight_details VALUES ('FL010', 'Akasa Air', 'Patna', 'Goa', '2025-08-10', 155);
```

```
INSERT INTO passengers VALUES ('P001', 'Rahul Sharma', '1990-05-15', 'Delhi',  
9876543210, 'rahul@email.com');
```

```
INSERT INTO passengers VALUES ('P002', 'Priya Singh', '1988-11-22', 'Mumbai',  
9876543211, 'priya@email.com');
```

```
INSERT INTO passengers VALUES ('P003', 'Amit Gupta', '1995-03-01', 'Bengaluru',  
9876543212, 'amit@email.com');
```

```
INSERT INTO passengers VALUES ('P004', 'Sneha Kumari', '2000-07-10', 'Chennai',  
9876543213, 'sneha@email.com');
```

```
INSERT INTO passengers VALUES ('P005', 'Vikas Reddy', '1985-01-20', 'Hyderabad',  
9876543214, 'vikas@email.com');
```

```
INSERT INTO passengers VALUES ('P006', 'Anjali Devi', '1992-09-03', 'Kolkata',  
9876543215, 'anjali@email.com');
```

```
INSERT INTO passengers VALUES ('P007', 'Arjun Patel', '1998-04-25', 'Ahmedabad',  
9876543216, 'arjun@email.com');
```

```
INSERT INTO passengers VALUES ('P008', 'Neha Verma', '1993-06-18', 'Pune',  
9876543217, 'neha@email.com');
```

```
INSERT INTO passengers VALUES ('P009', 'Sachin Joshi', '1980-02-29', 'Delhi',  
9876543218, 'sachin@email.com');
```

```
INSERT INTO passengers VALUES ('P010', 'Deepika Rao', '1997-12-05', 'Mumbai',  
9876543219, 'deepika@email.com');
```

```
INSERT INTO booking VALUES ('B001', 'FL001', '2025-07-28', 8500);
```

```
INSERT INTO booking VALUES ('B002', 'FL002', '2025-07-29', 7200);
```

```
INSERT INTO booking VALUES ('B003', 'FL003', '2025-07-29', 9800);
```

```
INSERT INTO booking VALUES ('B004', 'FL004', '2025-07-30', 6500);
```

```
INSERT INTO booking VALUES ('B005', 'FL005', '2025-07-30', 7800);
```

```
INSERT INTO booking VALUES ('B006', 'FL006', '2025-07-31', 9100);
```

```
INSERT INTO booking VALUES ('B007', 'FL007', '2025-07-31', 5900);
```

```
INSERT INTO booking VALUES ('B008', 'FL008', '2025-07-28', 12000);
```

```
INSERT INTO booking VALUES ('B009', 'FL009', '2025-07-29', 6800);
INSERT INTO booking VALUES ('B010', 'FL010', '2025-07-30', 7500);
INSERT INTO booking VALUES ('B011', 'FL007', '2025-08-02', 12000);
INSERT INTO booking VALUES ('B012', 'FL008', '2025-08-03', 6800);
INSERT INTO booking VALUES ('B013', 'FL009', '2025-08-03', 7500);
```

```
INSERT INTO booking_details VALUES ('B001', 'P001');
INSERT INTO booking_details VALUES ('B001', 'P002');
INSERT INTO booking_details VALUES ('B002', 'P003');
INSERT INTO booking_details VALUES ('B003', 'P004');
INSERT INTO booking_details VALUES ('B004', 'P005');
INSERT INTO booking_details VALUES ('B005', 'P006');
INSERT INTO booking_details VALUES ('B006', 'P007');
INSERT INTO booking_details VALUES ('B007', 'P008');
INSERT INTO booking_details VALUES ('B008', 'P009');
INSERT INTO booking_details VALUES ('B009', 'P010');
select Flight_source from Flight_details;
```

```
select f.Flight_source as Source,
count(f.Flight_name) as NO_OF_FLIGHTS
from Flight_details f
where f.Flight_source like '%o%' or f.Flight_source like '%O%'
group by f.Flight_source
order by f.Flight_source desc;
```

```
select
pass_name + ' hails from ' + Address as WEEKEND_TRIPS
from
```

```
passengers p
inner join
booking_details bd on p.pass_id = bd.Passid
inner join
booking b on bd.Bookingid = b.booking_id
inner join
Flight_details fd on b.flightid= fd.Flight_id
where
DATENAME(WEEKDAY,fd.Flight_date) IN ('SATURDAY', 'SUNDAY')
order by pass_name desc
```

```
select
Flight_name,
DATENAME(MONTH, fd.Flight_date) AS Flight_Time,
count(bd.Passid) as PASSENGER_COUNT
from
Flight_details fd
left join
booking b on fd.Flight_id = b.flightid
left join
booking_details bd on b.booking_id=bd.Bookingid
where
Flight_source != 'Mumbai'
group by
fd.Flight_id,
fd.Flight_name,
fd.Flight_date
having count(bd.Passid)<2
```

```
create or alter procedure passengerDetails(@Addr varchar(20))
as
begin
    PRINT 'The list of passengers names is:'
    select upper(p.pass_name)
    from passengers p
    where lower(p.Address) = lower(@Addr)
    order by p.pass_name desc
end;
EXEC passengerDetails 'Mumbai';
GO

create or alter procedure bookingAmount(@Fid varchar(20),@final decimal output)
as
begin
    select @final= sum(Amt) from booking where flightid = @Fid
    SET @final = @final * 1.10;
end;
GO

DECLARE @totalAmount DECIMAL(10, 2);
EXEC bookingAmount @Fid = 'FL001', @final = @totalAmount OUTPUT;
SELECT @totalAmount

GO

create or alter procedure findbooking(@Bid varchar(20))
as
begin
    DECLARE @bExists BIT;
```

```
SELECT @bExists = CASE WHEN EXISTS (SELECT 1 FROM booking WHERE booking_id  
= @Bid) THEN 1 ELSE 0 END;
```

```
IF @bExists = 1
```

```
BEGIN
```

```
SELECT
```

```
    p.pass_name AS PassengerName,
```

```
    DATEDIFF(day, b.Booking_date, fd.Flight_date) AS TotalDays
```

```
FROM
```

```
    booking_details bd
```

```
INNER JOIN
```

```
    booking b ON bd.Bookingid = b.booking_id
```

```
INNER JOIN
```

```
    passengers p ON bd.Passid = p.pass_id
```

```
INNER JOIN
```

```
    Flight_details fd ON b.flightid = fd.Flight_id
```

```
WHERE
```

```
    b.booking_id = @Bid
```

```
ORDER BY
```

```
    p.pass_name DESC;
```

```
END
```

```
ELSE
```

```
BEGIN
```

```
    PRINT 'No booking found for the provided booking ID';
```

```
END
```

```
END;
```

```
GO
```

findbooking 'B999';

Snapshots:

The screenshot displays two instances of the SQL Developer interface. The top instance shows a query (Ln: 59) that filters flights by source, resulting in a table with 3 rows: Kolkata, Kochi, and Goa, each with 1 flight.

```
53 |
54 | select f.Flight_source as Source,
55 | count(f.Flight_name) as NO_OF_FLIGHTS
56 | from Flight_details f
57 | where f.Flight_source like '%o%' or f.Flight_source like '%0%'
58 | group by f.Flight_source
59 | order by f.Flight_source desc;
```

	Source	NO_OF_FLIGHTS
1	Kolkata	1
2	Kochi	1
3	Goa	1

The bottom instance shows a more complex query (Ln: 76) that joins passengers, booking details, and flight details to find weekend trips. The result is a table with 3 rows listing passengers and their origins.

```
65 | pass_name + ' hails from ' + Address as WEEKEND_TRIPS
66 | from
67 | passengers p
68 | inner join
69 | booking_details bd on p.pass_id = bd.Passid
70 | inner join
71 | booking b on bd.Bookingid = b.booking_id
72 | inner join
73 | Flight_details fd on b.flightid= fd.Flight_id
74 | where
75 | DATENAME(WEEKDAY,fd.Flight_date) IN ('SATURDAY', 'SUNDAY')
76 | order by pass_name desc
```

	WEEKEND_TRIPS
1	Sneha Kumari hails from Chennai
2	Deepika Rao hails from Mumbai
3	Amit Gupta hails from Bengaluru

```
141      p.pass_name DESC;
142  END
143  ELSE
144  BEGIN
145      PRINT 'No booking found for the provided booking ID';
146  END
147  END;
148
149  GO
150  findbooking 'B002';
```

110 % 6 0 Ln: 150 Ch: 12 SPC CRLF

Results Messages

	PassengerName	TotalDays
1	Amit Gupta	4

Query executed successfully. VIJIT\_SHETTY (16.0 RTM) VIJIT\_SHETTY\vijit (54) KANINIBATCH2 00:00:00 1 rows

```
141      p.pass_name DESC;
142  END
143  ELSE
144  BEGIN
145      PRINT 'No booking found for the provided booking ID';
146  END
147  END;
148
149  GO
150  findbooking 'B999';
```

110 % 6 0 Ln: 150 Ch: 1 SPC CRLF

Messages

No booking found for the provided booking ID

Completion time: 2025-07-30T18:03:41.9520335+05:30

110 % No issues found Ln: 4 Ch: 1 TABS MIXED

Query executed successfully. VIJIT\_SHETTY (16.0 RTM) VIJIT\_SHETTY\vijit (54) KANINIBATCH2 00:00:00 0 rows