NAME: ABHISHEK VERMA

BATCH 2023-26 BBA-Sec.'A' 2ND Year

COER UNIVERSITY; CU-I'D:-CU23120009

PROJECT 2ND

SQL-DPP5

Query 1:

select distinct airline

from airlines;

Query 2:

SELECT country, COUNT(*) AS airport_count

FROM airports

GROUP BY country

Query 3:

select
FLIGHT_NUMBER,ORIGIN_AIRPORT,DESTINATION_AIRPORT,SCHEDULED_DEP
ARTURE

from Sample_flights

where SCHEDULED_DEPARTURE > 5

order by SCHEDULED_DEPARTURE desc

Query 4:

select
FLIGHT_NUMBER,ORIGIN_AIRPORT,DESTINATION_AIRPORT,SCHEDULED_DEP
ARTURE

from Sample_flights

where SCHEDULED_DEPARTURE > 5

order by SCHEDULED_DEPARTURE desc

limit 10

Query 5:

SELECT a.AIRPORT, COUNT(*) AS total_flights

FROM sample_flights f

JOIN airports a ON f.ORIGIN_AIRPORT = a.IATA_CODE

WHERE f.YEAR = 2015

GROUP BY a.AIRPORT

ORDER BY total_flights DESC

LIMIT 1;

Query 6:

SELECT a.AIRLINE, COUNT(*) AS total_flights

FROM Sample_flights s

JOIN airlines a ON s.airline = a.iata_code

WHERE (s.FLIGHT_NUMBER) = 2015

GROUP BY a.airline

ORDER BY total_flights DESC

LIMIT 1;

Query 7:

SELECT DAY, DAY_OF_WEEK AS day_of_week,

COUNT(*) AS total_flights

FROM sample_flights

GROUP BY day_of_week

ORDER BY total_flights DESC

LIMIT 1;

Query 8:

SELECT DAY_OF_WEEK,COUNT(*) AS total_flights

FROM sample_flights

WHERE YEAR = 2015

GROUP BY DAY_OF_WEEK

ORDER BY total_flights ASC

LIMIT 1;

Query 9:

SELECT YEAR, MONTH, DAY, COUNT(*) AS total_flights

FROM sample_flights

WHERE YEAR = 2015 AND AIRLINE = 'DL'

GROUP BY YEAR, MONTH, DAY

ORDER BY total_flights DESC

LIMIT 1;

Query 10:

SELECT a.AIRLINE, COUNT(*) AS total_flights

FROM sample_flights f

JOIN airlines a ON f.AIRLINE = a.IATA_CODE

WHERE f.YEAR = 2015

GROUP BY a.AIRLINE

ORDER BY total_flights ASC

LIMIT 1;

Query 11:

SELECT a.AIRLINE, AVG(DEPARTURE_DELAY) AS avg_departure_delay

FROM sample_flights f

JOIN airlines a ON f.AIRLINE = a.IATA_CODE

GROUP BY a.AIRLINE

ORDER BY avg_departure_delay DESC

LIMIT 1;

Query 12:

SELECT a.AIRPORT, COUNT(*) AS total_flights

FROM sample_flights f

JOIN airports a ON f.DESTINATION_AIRPORT = a.IATA_CODE

GROUP BY a.AIRPORT

ORDER BY total_flights DESC

LIMIT 10;

Query 13:

SELECT a.AIRPORT, COUNT(*) AS total_flights

FROM sample_flights f

JOIN airports a ON f.ORIGIN_AIRPORT = a.IATA_CODE

GROUP BY a.AIRPORT

ORDER BY total_flights DESC

LIMIT 10;

Query 14:

SELECT a.AIRLINE,SUM(CASE WHEN DEPARTURE_DELAY > 0 THEN 1 ELSE 0
END) / COUNT(*) * 100 AS delay_percentage

FROM sample_flights f

JOIN airlines a ON f.AIRLINE = a.IATA_CODE

GROUP BY a.AIRLINE

ORDER BY delay_percentage DESC

LIMIT 1;

Query 15:

SELECT *

FROM airports

WHERE STATE = 'CA';

Query 16:

SELECT *

FROM sample_flights

WHERE DISTANCE > 1000;

Query 17:

SELECT a.AIRLINE, COUNT(*) AS total_flights

FROM sample_flights f

JOIN airlines a ON f.AIRLINE = a.IATA_CODE

GROUP BY a.AIRLINE

ORDER BY total_flights DESC

LIMIT 5;

Query 18:

SELECT a.AIRPORT, COUNT(*) AS total_flights

FROM sample_flights f

JOIN airports a ON f.ORIGIN_AIRPORT = a.IATA_CODE

GROUP BY a.AIRPORT;

Query 19:

SELECT a.AIRLINE, AVG(ELAPSED_TIME) AS avg_flight_duration

FROM sample_flights f

JOIN airlines a ON f.AIRLINE = a.IATA_CODE

GROUP BY a.AIRLINE;

Query 20:

SELECT *

FROM sample_flights

ORDER BY DISTANCE DESC

LIMIT 5;

CSV SQL Live

```
GROUP BY country
ORDER BY airport_count DESC
```

Any valid SQLite query is supported.

COUNTRY	airport_c
Search	Search
USA	322

CSV SQL Live

```
SELECT flight_number, origin_airport, destination_airport, scheduled_departure
FROM Sample_flights WHERE scheduled_departure > 5 ORDER BY scheduled_departure DESC
```

Any valid SQLite query is supported.

FLIGHT_NUMBER	ORIGIN_AIRPORT	DESTINATION_AIRPORT	SCHEDULED_DEP
Search	Search	Search	Search
3479	MLI	ORD	959
646	PHX	BOS	959
1103	12953	13303	959
1455	ATL	LAX	959
1580	MIA	JFK	959
1721	SFO	KOA	959
275	DFW	EWR	959
2091	DFW	CLT	959
5765	DEN	LNK	959
491	JFK	LAS	959
6279	DEN	DFW	959
646	PHX	BOS	959
2319	LGA	MSP	959
527	SMF	PHX	959
3031	LGA	ATL	959

CSV SQL Live

```
select FLIGHT_NUMBER, ORIGIN_AIRPORT, DESTINATION_AIRPORT, SCHEDULED_DEPARTURE from S
where SCHEDULED_DEPARTURE > 5 order by SCHEDULED_DEPARTURE desc limit 10
```

Any valid SQLite query is supported.

FLIGHT_NUMBER	ORIGIN_AIRPORT	DESTINATION_AIRPORT	SCHEDUL
Search	Search	Search	Search
773	ATL	PDX	959
571	ATL	STT	959
2270	DTW	MSN	959
1027	FLL	EWR	959
4731	13487	14730	959
1842	MIA	CLT	959
4546	SLC	OKC	959
5906	DEN	HSV	959
5710	DEN	ICT	959
5090	ATL	MYR	959

CSV SQL Live

```
ORDER BY total_flights DESC
LIMIT 1;
```

Any valid SQLite query is supported.

AIRLINE	total_flights
Search	Search
Delta Air Lines Inc.	37

CSV SQL Live

Loaded Tab

```
SELECT DAY,DAY_OF_WEEK AS day_of_week,
    COUNT(*) AS total_flights
```

Any valid SQLite query is supported.

DAY	day_of_week	total_flig
Search	Search	Search
6	4	87461

CSV SQL Live

```
SELECT
    a.AIRLINE,
```

Any valid SQLite query is supported.

AIRLINE	total_flig
Southwest Airlines Co.	125965

CSV SQL Live

```
SELECT
    DAY_OF_WEEK,
```

Any valid SQLite query is supported.

DAY_OF_WEEK	total_flights
6	69743

```
SELECT
    ap.AIRPORT,
```

Any valid SQLite query is supported.

AIRPORT	total_flig
Hartsfield-Jackson Atlanta International Airport	34584

CSV SQL Live Loaded Tables Add

SELECT YEAR, MONTH, DAY, COUNT(*) AS total_flights
FROM sample_flights

Any valid SQLite query is supported.

YEAR	MONTH	DAY	total_flights
2015	7	2	307

CSV SQL Live

SELECT a.AIRLINE, COUNT(*) AS total_flights
FROM sample_flights sf

Any valid SQLite query is supported.

AIRLINE	total_flights
Virgin America	6188

SELECT a.AIRLINE, AVG(DEPARTURE_DELAY) AS avg_departure_delay
FROM sample_flights sf

Any valid SQLite query is supported.

AIRLINE	avg_departure_delay
Spirit Air Lines	15.360428800540221

CSV SQL Live Loaded Tables

SELECT ap.AIRPORT, COUNT(*) AS total_flights
FROM sample_flights sf

Any valid SQLite query is supported.

AIRPORT	total_flights
Hartsfield-Jackson Atlanta International Airport	34624
Chicago O'Hare International Airport	28557
Dallas/Fort Worth International Airport	24069
Denver International Airport	19739
Los Angeles International Airport	19530
George Bush Intercontinental Airport	14827
San Francisco International Airport	14787
Phoenix Sky Harbor International Airport	14580
McCarran International Airport	13502
Minneapolis-Saint Paul International Airport	11263

CSV SQL Live

Loaded Tables

```
SELECT ap.AIRPORT, COUNT(*) AS total_flights
FROM sample_flights sf
```
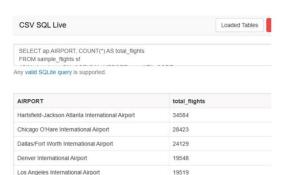Any valid SQLite query is supported.

AIRPORT	total_flights
Hartsfield-Jackson Atlanta International Airport	34584
Chicago O'Hare International Airport	28423
Dallas/Fort Worth International Airport	24129
Denver International Airport	19548
Los Angeles International Airport	19519
San Francisco International Airport	14774
Phoenix Sky Harbor International Airport	14759
George Bush Intercontinental Airport	14718
McCarran International Airport	13290
Minneapolis-Saint Paul International Airport	11143

CSV SQL Live

Loaded Tables

```
SELECT a.AIRLINE,
    SUM(CASE WHEN DEPARTURE_DELAY > 0 THEN 1 ELSE 0 END) / COUNT(*) * 100 AS
```
Any valid SQLite query is supported.

AIRLINE	delay_percentage
Alaska Airlines Inc.	0

```
SELECT *
FROM airports
```
Any valid SQLite query is supported.

Run Query

IATA_CODE	AIRPORT	CITY	STATE	COUNTRY	LATITUDE	LONGITUDE
ACV	Arcata Airport	Arcata/Eureka	CA	USA	40.97812	-124.10862
BFL	Meadows Fielc	Bakersfield	CA	USA	35.43360	-119.05677
BUR	Bob Hope Airp	Burbank	CA	USA	34.20062	-118.35850
CEC	Del Norte Cour	Crescent City	CA	USA	41.78016	-124.23653
CLD	McClellan-Palc	San Diego	CA	USA	33.12723	-117.27873
FAT	Fresno Yosem	Fresno	CA	USA	36.77619	-119.71814
LAX	Los Angeles In	Los Angeles	CA	USA	33.94254	-118.40807
LGB	Long Beach Ai	Long Beach	CA	USA	33.81772	-118.15161
MMH	Mammoth Yos	Mammoth Lak	CA	USA	37.62405	-118.83777
MRY	Monterey Regi	Monterey	CA	USA	36.58698	-121.84295
OAK	Oakland Interr	Oakland	CA	USA	37.72129	-122.22072
ONT	Ontario Interna	Ontario	CA	USA	34.05600	-117.60119
PSP	Palm Springs I	Palm Springs	CA	USA	33.82922	-116.50625
RDD	Redding Munic	Redding	CA	USA	40.50898	-122.29340
SAN	San Diego Inte	San Diego	CA	USA	32.73356	-117.18966

```
SELECT *
FROM sample_flights
```
Any valid SQLite query is supported.

Run Query

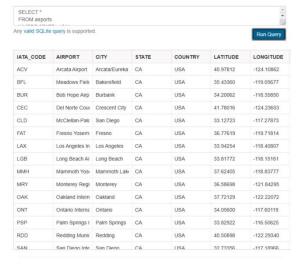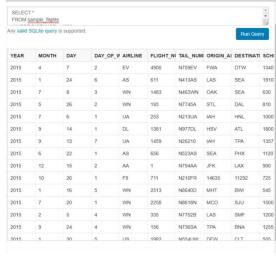| YEAR	MONTH	DAY	DAY_OF_W	AIRLINE	FLIGHT_NI	TAIL_NUMI	ORIGIN_AI	DESTINATI	SCHI
2015	4	7	2	EV	4900	N759EV	FWA	DTW	1340
2015	1	24	6	AS	611	N413AS	LAS	SEA	1910
2015	7	8	3	WN	1483	N463WN	OAK	SEA	630
2015	5	26	2	WN	193	N7745A	STL	DAL	810
2015	7	6	1	UA	253	N213UA	IAH	HNL	1000
2015	9	14	1	DL	1381	N977DL	HSV	ATL	1800
2015	9	13	7	UA	1459	N26210	IAH	TPA	1357
2015	6	22	1	AS	656	N523AS	SEA	PHX	1120
2015	12	15	2	AA	1	N794AA	JFK	LAX	900
2015	10	26	1	F9	711	N210FR	14635	11292	725
2015	1	16	5	WN	2513	N8640D	MHT	BWI	545
2015	7	20	1	WN	2258	N8618N	MCO	SJU	1500
2015	2	5	4	WN	335	N7752B	LAS	SMF	1200
2015	9	24	4	WN	156	N736SA	TPA	BNA	1255
2015	1	30	5	US	1982	N554UW	DFW	CLT	505

```
SELECT a.AIRLINE, COUNT(*) AS total_flights
    FROM sample_flights sf
```
Any valid SQLite query is supported.

AIRLINE	total_flights
Southwest Airlines Co.	125965
Delta Air Lines Inc.	87576
American Airlines Inc.	72864
Skywest Airlines Inc.	58721
Atlantic Southeast Airlines	57038

```
SELECT ap.AIRPORT, COUNT(*) AS total_flights
    FROM sample_flights sf
```
Any valid SQLite query is supported.

AIRPORT	total_flights
Aberdeen Regional Airport	66
Abilene Regional Airport	240
Abraham Lincoln Capital Airport	148
Adak Airport	8
Akron-Canton Regional Airport	585
Albany International Airport	770
Albert J. Ellis Airport	123
Albuquerque International Sunport	1848
Alexandria International Airport	299
Alpena County Regional Airport	47
Appleton International Airport	297
Arcata Airport	145
Arnold Palmer Regional Airport	141
Asheville Regional Airport	292

```
SELECT a.AIRLINE, AVG(ELAPSED_TIME) AS avg_flight_duration
    FROM sample_flights sf
```
Any valid SQLite query is supported.

AIRLINE	avg_flight_duration
Alaska Airlines Inc.	177.34644802410477
American Airlines Inc.	163.18744510320596
American Eagle Airlines Inc.	87.59723769965893
Atlantic Southeast Airlines	94.3604614467548
Delta Air Lines Inc.	139.38118891020372
Frontier Airlines Inc.	154.28967141415274
Hawaiian Airlines Inc.	102.8573300144111
JetBlue Airways	165.3578081574401
Skywest Airlines Inc.	98.96948280853528
Southwest Airlines Co.	119.30860159568134
Spirit Air Lines	153.37832362623448
US Airways Inc.	148.948885318337
United Air Lines Inc.	187.37728520078846
Virgin America	203.0318358112476

CSV SQL Live

Loaded Tables   Add New CSV

```
SELECT *
FROM sample_flights
```
Any valid SQLite query is supported.

Run Query

YEAR	MONTH	DAY	DAY_OF_W	AIRLINE	FLIGHT_N	TAIL_NUM	ORIGIN_A	DESTINATI	SCH
2015	6	18	4	MQ	3625	N688MQ	GSO	DFW	1911
2015	4	19	7	MQ	3415	N925MQ	DFW	GSO	659
2015	12	31	4	WN	2498	N742SW	SLC	DAL	645
2015	3	30	1	MQ	3071	N932MQ	DFW	GSO	1440
2015	3	2	1	MQ	3065	N906MQ	DFW	GSO	755