Hive Ques1. 1.ans

select a.name, r.src_airport_iata, r.dest_airport_iata from routes r
join airlines a on a.airline_id=r.airline_id join airport al on al.ai
rport id=a.airline id limit 10;

2.

3.
select max(airline iata), count(*) as no routes from routes;

```
Subscription Datable Naver x colorange. Countries and Subscription 12-31-4 x colorange. Colorange.
```

Spark:

Ques1

1.Ans

df.groupby("Year","booked seat").where("booked seats">40000).show()

2. Ans

Using df show distinct years data

df.groupby("Year").agg(sum(col("Avg_rev_per_seat")*col("booked_seats"
)).alias("Total_rev")).orderBy("Year",ascending=True).show()

```
⑤ cdacuser83315@ip-172-31-9 x ⑥ New Tab
                                                                                                                                                                                                                                                                                                  Updates Available
Do you want to install the updates now or try tonight?
    \leftarrow \rightarrow C ^{\circ\circ} cdacnpapc.cloudloka.com/shell/
    ## In Feed | LinkedIn □ coding ⑤ geeksforgeeks □ InterviewPreparat... □ PracsCloud
                                                                                                                                                                                                                                                                                       New iCloud Terms and Conditions
To use iCloud on this Mac, you must accept the new Terms and Conditions.
 |2004|5.0631364949999996E7|
|2005| 4.637678624E7|
 |2005| 4.637678624E7|
|2006|5.0437898419999994E7|
|2007| 5.73003457
  |2007| 5.730921607E7
|2008|5.7653170760000005E7
                            4.674644659E7
5.486152129E7
  2009
                             5.188828622E7
6.219912728E7
                              6.636320871E7
 |2014| 6.262417585000001E7
 only showing top 20 rows
 >>> df.groupby("Year").agg(sum(col("Avg_rev_per_seat")*col("booked_seats")).alias("Total_rev")).orderBy("Year",ascending=True).show()
 |Year| Total_rev|
                           4.349424322E7|
4.635877803E7|
4.538523616E7|
4.203571778E7|
4.875771448E7|
 |1995|
|1996|
 |2005| 4.637678624E7
|2006|5.0437898419999994E7
  |2007| 5.730921607E7
|2008|5.7653170760000005E7
                            4.674644659E7
5.486152129E7
5.188828622E7
 | 2012 | 6.219912728E7
|2013 | 6.636320871E7
|2014 | 6.262417585000001E7
 only showing top 20 rows
>>> df.groupby("Year","Quarter").agg(avg("Avg_rev_per_seat").alias("Avg_rev")).where("Avg_rev">290).orderBy("Avg_rev",ascending=False).show()
Traceback (most recent call last):
    File "sstdin", line 1, in (module>
TypeError: '>' not supported between instances of 'str' and 'int'
>>> df.groupby("Year","Quarter").agg(avg("Avg_rev_per_seat").alias("Avg_rev")).where("Avg_rev" gt 290).orderBy("Avg_rev",ascending=False).show()
    File "sstdin"*, line 1
    df grounbw("Year","Quarter").agg(avg("Avg_rev_per_seat").alias("Avg_rev")).where("Avg_rev" gt 290).orderBy("Avg_rev",ascending=False).show()
    file "sstdin"*, line 1
    df grounbw("Year","Quarter").agg(avg("Avg_rev_per_seat").alias("Avg_rev")).where("Avg_rev" gt 290).orderBy("Avg_rev",ascending=False).show()
```

Ques2:

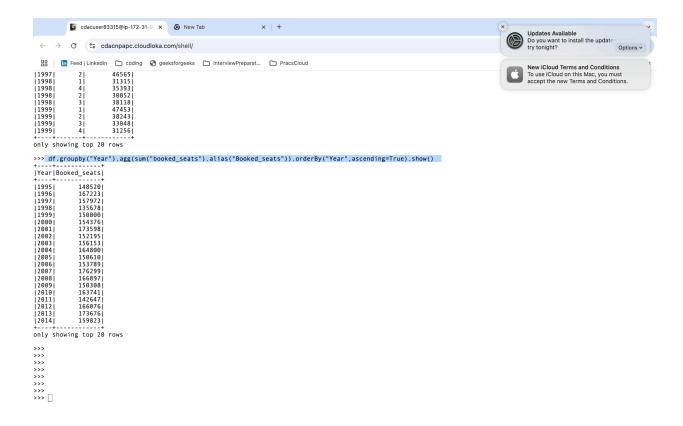
1 ans

```
df.agg(min("Avg_rev_per_seat").alias("Min_rev")).show()
df.agg(max("Avg_rev_per_seat").alias("Max_rev")).show()
```

df.agg(avg("Avg rev per seat").alias("Avg rev")).show()

2.

3.
df.groupby("Year").agg(sum("booked_seats").alias("Booked_seats")).ord
erBy("Year",ascending=True).show()



4. df.groupby("Year").agg(sum("booked_seats").alias("Booked_seats")).ord erBy("Year",ascending=True).show()

```
| Continue | Continue
```

