a.)

If there is a high priority to access data about airports from just their city and state. Then I would make an view or index for each airport, with titles like [Los\_Angelos, California].

CREATE VIEW [Los Angelos, California] AS

**SELECT** \*

FROM AIRPORT

WHERE Airport Name = "LAX"

That way people only need to do SELECT \* FROM [Los\_Angelos, California] to pull all/allowed data from the table.

b.)

If there is a frequent need to find total of salary for mechanics of some airport, then I would make a view for each airport like:

CREATE VIEW total\_mechanic\_salaries\_LAX AS

SELECT SUM(Salary)

FROM MECHANIC

WHERE Airport\_Name = "LAX"

c.)

This would be a situation where a B+Index would work best, because we would want to look on other tables where their information is affected and that kind of recursive nature would probably get the result were looking for.

d.)

Again I think this kind of solution could be solved with a more complex view. Since we want a view for any particular airport we would want one of these indexes for each airport.

CREATE VIEW LAX Mechanics AS

SELECT MECHANIC.Mechanic Name, MECHANIC.Telephone, AIRPORT.CITY, AIRPORT.STATE

FROM MECHANIC

JOIN AIRPORT ON MECHANIC.Airport Name = "LAX"

That last line could also be MECHANIC.Airport Name = AIRPORT.Airport Name for any and all display.

e.)

This would be an index for all of the information of the table without having the description in there:

```
CREATE INDEX SKILL_FAST_VIEW

ON SKILL (Skill_Number, Skill_Name, Skill_Category);
```

That way all can be selected usually for a slower view, but when needed this can be used to access that needed information without the time waisted waiting for the desecription.