My reflection on Problem 1: Craft Project App

In this question, I omitted the a really important part, which is that cookies are not secure and can be easily meddled with. I also didn't really understand the difference between cookie and session, I thought they were the same thing. Now I know that sessions and cookies are two different things and Flask's sessions use digital signature to detect and defeat meddling; therefore the project ID should be stored in a session to be more secure.

My reflection on Problem 2: Ajax Examples
I didn’t make a mistake on problem 2.

My reflection on Problem 3: Course Registration

The mistake I made on problem 3 is that my primary keys aren't unique. Somehow I have forgotten about that fact. Knowing that two entries to a table cannot have the same primary key, I would not use B number as a primary key for the table containing (Bnum, CRN) since each student are registered to multiple classes.

My reflection on Problem 4: Code Analysis

I made a mistake on this problem because I didn't understand the idea of SQL injection. I think overall I am not too well-knowledges in terms of database security. Looking over the answer key and doing some googling on my own gave me a better understanding of SQL injection and how string formatting can combine our sql code with untrustworthy user value and endanger our database.

My reflection on Problem 5: Best movies each year
I did not understand how to use GROUP BY and AS, which I do now. The GROUP BY statement groups rows that have the same values into summary rows. The GROUP BY statement in the answer key finds the top rating for each year. The AS command is used to rename a column or table with an alias.

My reflection on Problem 6: Adding Oscars

I made a mistake on this problem because I ignored the fact that a person can win the same award more than once, therefore the role needs to go in the credit table. Also, I omitted how putting NM and TT in the same column can obstruct foreign key statement, which is necessary for referential integrity.

My reflection on Problem 7: ER and SQL for airplanes
My mistakes on this problem are: first of all, I put home as a attribute to airplane; in fact it should be a relationship between airport and airplane. Also, I ignored that an airplane can fly to an airport multiple time, therefore my Itinerary table should have a date attribute.