

James Satherley, Database Design, Assignment 2, 158.247

1a)

```
' or 1=1 --
```

This will bypass needing a password regardless of name as it ends the username input and causes the WHERE statement to be true with 1=1 and then comments out the rest

1b)

```
' union select pwd from users where name='admin' --
```

This will bypass needing a password in the same way as above, but also unions

to select statements, the second one selecting the pwd where name is "admin"

1c)

```
query = "select permissions from users where name=%s and pwd=%s"  
cursor.execute(query, (name, pwd))
```

This will protect against SQL injection attacks. There are no '

in it and the data needed for the query is inserted later on in a tuple which can also not be edited so no data can be tampered with.