DB optimization:

1. Categories –the name is correct

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | important changes | changes that depend on a certain situation | Comment |
| id | - | - | ok |
| name | - | - | - |
| parent\_id | - | Need to create index for the column | - |
| active | need to change from “bigint” to “tinyint” | must be not null | - |
| created\_at | - | must be not null | - |
| updated\_at | - | must be not null | - |

1. category\_product - the name is correct (correctly ordered name)

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | important changes | changes that depend on a certain situation | Comment |
| id | Need to delete | - | there is no need to use this field |
| category\_id | it is necessary to create a unique index for the two columns | must be not null | - |
| product\_id | - |
| active | - | must be not null | - |
| created\_at | - | must be not null | - |
| updated\_at | - | must be not null | - |

1. products - the name is correct

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | important changes | changes that depend on a certain situation | Comment |
| id | - | - | ok |
| name | - | better to create an index for the column | - |
| price | need to change from “bigint” to “tinyint”,  must be not null | must be not null | - |
| active | need to change from “int” to “tinyint” | must be not null | - |
| created\_at | - | must be not null | - |
| updated\_at | - | must be not null | - |

P.S. For all integer columns better using “unsigned” datatype, it is possible to increase the number of indexes by 2 times while using the same volume of bytes.