# 5

$addFields

<https://docs.mongodb.com/manual/reference/operator/aggregation/addFields/#mongodb-pipeline-pipe.-addFields>

It adds new fields to documents. For example: db.employee.aggregate({$addFields: {"myRating": "$ratingTable.rating"}}) add rating data from ratingTable in name myRating as a new column to the current document.

$lookup

<https://docs.mongodb.com/manual/reference/operator/aggregation/lookup/>

It performs a left outer join to an unsharded collection in the same database to filter in documents from the "joined" collection for processing. For example: db.employee.aggregate({$lookup: {from: "wages", localField: "rating", foreignField: "\_id", as: "newRating"}}) performs left outer join from collection “wages” by perform equality match between wages.rating and \_id, the result is in name newRating.

$project

<https://docs.mongodb.com/manual/reference/operator/aggregation/project/#mongodb-pipeline-pipe.-project>

It can add new fields or remove existing fields. For example: db.employee.aggregate({$project: {\_id: 0}}) is remove the \_id column from the document, while db.employee.aggregate({$project: {\_id: 1}}) is showing the \_id.