LAB 2 - MONGO DB QUERY LOGS (Shell execution)

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SCENARIO 1 - NO OF MOVIES WATCHED PER COUNTRY

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate ([
{ $project : {custCountry:"$cust_country"} },
{ $group : {_id: { custCountry:"$custCountry"},movies_watched: {$sum: 1}}},
{$sort :{movies_watched:-1}}
])
```

SCENARIO 2 - NO OF MOVIES RELEASED PER YEAR

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate([

{$match:{"rank_id":{$nin:[null,""]}}},

{$group:{_id: {year:"$Year"}, movies: { $addToSet: "$rank_id" }}},

{$project:{ year:1, uniqueCount:{$size:"$movies"}}},

{$sort:{uniqueCount:-1}}

])
```

SCENARIO 3 - TOP 5 EMPLOYEES WHO HAVE RESPONDED TO MOST COMPLAINTS

SCENARIO 4 - NO OF CUSTOMERS PER COUNTRY

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate([
{$group:{_id:{"custcountry" : "$cust_country"},uniqueCount: {$addToSet: "$customer_id"}}},
{$project:{"custcountry":1,uniqueCustomerCount:{$size:"$uniqueCount"}} }
```

SCENARIO 5 - NO OF COMPLAINTS RECORDED PER COMPLAINT CATEGORY

QUERY & RESULT (SHELL EXECUTION):

SCENARIO 6 - COMPLAINTS CLOSED PER MONTH

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate([

{$match:{"close_date":{$nin:[null,""]}}},

{$group:{_id:{closed_month:{$month:"$close_date"}},number:{$addToSet:"$complaint_id"}}},

{$project:{closed_month:1,totalComplaints:{$size:"$number"}}},

])
```

SCENARIO 7 – COMPLAINTS CREATED PER MONTH

SCENARIO 8 - PAYMENT MADE PER MONTH

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate([
{$match:{"total_amount":{$nin:[null,""]}}},
{$project:{payment_date:"$payment_date",amount:"$total_amount"}},
{$group:{_id:{Month:{$month:"$payment_date"}},total_count:{$sum:"$amount"}}},
{$sort:{"_id.Month":1}}
])
```

SCENARIO 9 - TOP 10 CUSTOMERS BASED ON MOVIES WATCHED

QUERY & RESULT (SHELL EXECUTION):

SCENARIO 10 - TOP 10 DIRECTORS BASED ON USER WATCH HISTORY

```
db.smd.aggregate([
{$match:{ "Director":{$nin:[null,""]}}},
{$group:{_id: {director:"$Director"}, cust: { $addToSet: "$user_id" },rank:{$addToSet:"$rank_id"}}},
{$project:{ director:1, count: { $size: "$rank" }}},
{$sort:{ count:-1}},
{$limit:5}
])
```

SCENARIO 11 - COMPLAINTS BASED ON SEVERITY

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate([

{$match: { "complaint_id":{$nin:[null]}}},

{$group:{ _id: {complaintSeverity:"$severity"}, totalCount: { $addToSet: "$complaint_id" }}},

{$project:{ complaintSeverity:1,totalComplaints:{$size:"$totalCount"}}},

{$sort:{ totalComplaints: 1}}

])
```

SCENARIO 12 - AVERAGE SALARY BASED ON DESIGNATION

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate([

{$match:{"emp_id":{$nin:[null,""]}}},

{$project:{salary:"$emp_salary", designation:"$emp_position"}},

{$group:{_id: {designation:"$designation"}, average_salary: { $avg: "$salary" }}},

{$sort:{average_salary:1}}

]).pretty()
```

SCENARIO 13 - EMPLOYEES PER DESIGNATION BASED ON EMPLOYMENT STATUS

QUERY & RESULT (SHELL EXECUTION):

SCENARIO 14 - 5 LATEST CLOSED COMPLAINTS

SCENARIO 15 – MOST PREFERRED SCREENS BY THE CUSTOMERS

QUERY & RESULT (SHELL EXECUTION):

SCENARIO 16 – TOP HIGHEST GROSSING MOVIES

QUERY & RESULT (SHELL EXECUTION):

```
db.smd.aggregate([

{$match:{ "Revenue (Millions)":{$nin:[null,""]}}},

{$project:{ title:"$Title", rank:"$rank_id", revenue:"$Revenue (Millions)"}},

{$group:{ _id: {rank:"$rank",title:"$title"}, totalRevenue: { $addToSet: "$revenue" }}},

{$sort:{ totalRevenue: -1 }},

{$limit:20},

{$project:{ "_id.title":1, "totalRevenue":1}}])
```

SCENARIO 17 – TOP 5 MOST RATED MOVIES

QUERY & RESULT (SHELL EXECUTION):

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