

# Cost and Usage Report (CUR) Queries examples

## What columns are available in my Cost and Usage Report (CUR) file?

```
select * from {your_table_name}
where month(bill_billing_period_start_date) = 09 and year(bill_billing_period_start_date) = 2019
limit 10;
```

## What Billing periods are available?

```
SELECT distinct bill_billing_period_start_date FROM {your_table_name}
limit 12;
```

## Top 10 Costs by AWS Product

```
select "line_item_product_code", round(sum("line_item_unblended_cost"),2) as cost from {your_table_name}
where month(bill_billing_period_start_date) = 09 and year(bill_billing_period_start_date) = 2019
group by "line_item_product_code"
order by cost desc
limit 10;
```

## Top 20 Costs by Item Description and Tag "Project"

```
SELECT "bill_payer_account_id", "product_product_name", "line_item_usage_type", "line_item_line_item_description",
resource_tags_user_project, round(sum(line_item_unblended_cost),2) as cost FROM {your_table_name}
where length("resource_tags_user_project") >0 and month(bill_billing_period_start_date) = 09 and
year(bill_billing_period_start_date) = 2019
group by "resource_tags_user_project", "bill_payer_account_id", "product_product_name", "line_item_usage_type",
"line_item_line_item_description"
order by cost desc
limit 20
```

## Top 20 Costs by Item Description and without any value for Tag "Project"

```
SELECT "bill_payer_account_id", "product_product_name", "line_item_usage_type", "line_item_line_item_description",
round(sum(line_item_unblended_cost),2) as cost FROM {your_table_name}
where length("resource_tags_user_project") = 0 and month(bill_billing_period_start_date) = 09 and
year(bill_billing_period_start_date)= 2019
group by "bill_payer_account_id", "product_product_name", "line_item_usage_type", "line_item_line_item_description"
order by cost desc
limit 20
```

## Which AWS account id consumed the RI discounts

```
select "bill_payer_account_id", "bill_billing_period_start_date", "line_item_usage_account_id",
"reservation_reservation_a_r_n", "line_item_product_code", "line_item_usage_type", sum("line_item_usage_amount") as
Usage, "line_item_unblended_rate", sum("line_item_unblended_cost") as Cost, "line_item_line_item_description",
"pricing_public_on_demand_rate", sum("pricing_public_on_demand_cost") as PublicCost from {your_table_name}
where "line_item_line_item_Type" like '%DiscountedUsage%' and month(bill_billing_period_start_date) = 09 and
year(bill_billing_period_start_date) = 2019
group by "bill_payer_account_id", "bill_billing_period_start_date", "line_item_usage_account_id",
"reservation_reservation_a_r_n", "line_item_product_code", "line_item_usage_type", "line_item_unblended_rate",
"line_item_line_item_description", "pricing_public_on_demand_rate"
```

## Which instance-id consumed the RI discounts (Showback & Chargeback)

```
SELECT "line_item_usage_account_id", "line_item_line_item_type", "line_item_usage_type", "product_instance_type",
"line_item_line_item_description", "product_region", "pricing_purchase_option", "pricing_lease_contract_length",
"pricing_public_on_demand_rate", "product_tenancy", "product_operating_system", "pricing_offering_class", "pricing_term",
"reservation_reservation_a_r_n", "reservation_subscription_id", sum(try_cast ("line_item_usage_amount" AS double)) AS
```

```

total_hours, sum(case WHEN "line_item_line_item_type" LIKE 'Usage' THEN cast("line_item_unblended_cost" AS double) ELSE
try_cast("reservation_effective_cost" AS double)end ) AS effective_cost, sum(try_cast ("line_item_usage_amount" AS double) *
try_cast("pricing_public_on_demand_rate" AS double)) AS on_demand_cost, sum( (try_cast ("line_item_usage_amount" AS
double) * try_cast("pricing_public_on_demand_rate" AS double)) -
CASE
WHEN "line_item_line_item_type" LIKE 'Usage' THEN
try_cast("line_item_unblended_cost" AS double)
ELSE try_cast("reservation_effective_cost" AS double) end ) AS savings
FROM {your_table_name}
WHERE "line_item_usage_type" LIKE '%BoxUsage%'
AND "line_item_product_code" LIKE '%EC2%' and month(bill_billing_period_start_date) = 09 and
year(bill_billing_period_start_date) = 2019
GROUP BY 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

```

## EC2 Usage Type by hours, cost and hourly rate

```

select "line_item_usage_type", round(sum("line_item_usage_amount"),2) as usage, round(sum("line_item_unblended_cost"),2)
as cost, round(avg("line_item_unblended_cost"/"line_item_usage_amount"),4) as hourly_rate from {your_table_name}
where "line_item_product_code" like '%AmazonEC2%' and "line_item_usage_type" like '%Usage%' and
month(bill_billing_period_start_date) = 09 and year(bill_billing_period_start_date) = 2019
group by "line_item_usage_type"
order by "line_item_usage_type"

```

## EC2 Spot Usage Hours and Cost per Account ID and Instance Type

```

select "line_item_usage_account_id", "line_item_usage_type", count(*) as hours, sum ("line_item_blended_cost") as cost
from {your_table_name}
where "line_item_usage_type" like '%Spot%'
group by "line_item_usage_account_id", "line_item_usage_type"
order by "line_item_usage_account_id" asc, "line_item_usage_type" desc

```

## Data charges per resource across all services

```

select distinct "line_item_product_code", "line_item_usage_type", "product_from_location", "product_to_location",
"line_item_resource_id", sum("line_item_usage_amount")/1024 as "TB's", sum("line_item_blended_cost") as cost
from {your_table_name}
where "line_item_usage_type" like '%Bytes%'
and ("line_item_usage_type" like '%In%' OR "line_item_usage_type" like '%Out%' OR "line_item_usage_type" like 'Nat%')
and ("product_from_location" = " OR "product_from_location" like '%(%)')
group by "line_item_product_code", "line_item_usage_type", "product_from_location", "product_to_location",
"line_item_resource_id"
order by sum("line_item_blended_cost") desc

```

For more information please visit [awscostlabs.com](http://awscostlabs.com)