Question 1

Review the article Below

<https://learn.microsoft.com/en-us/sql/t-sql/functions/aggregate-functions-transact-sql?view=sql-server-ver16>

Reviewed

Question 2

Using **[AdventureWorksDW2019].[dbo].[FactInternetSales]**

I need a report to see the total **SalesAmount** by **SalesTerritoryKey**.

/\*\*\*\*\*\* Report to see the total SalesAmount by SalesTerritoryKey. \*\*\*\*\*\*/

SELECT [SalesTerritoryKey]

,round(sum([SalesAmount]),2) [Total Sale Amount]

FROM [AdventureWorksDW2019].[dbo].[FactInternetSales]

group by [SalesTerritoryKey]

order by [SalesTerritoryKey] desc;

SalesTerritoryKey

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10 3391712.21

9 9061000.58

8 2894312.34

7 2644017.71

6 1977844.86

5 12238.85

4 5718150.81

3 3000.83

2 6532.47

1 3649866.55

Question 3

Highest saleamount by productkey .

total sale amount is more than 10000

Query

select

[ProductKey],

[SalesTerritoryKey],

max([SalesAmount]) [Max Sales]

FROM [AdventureWorksDW2019].[dbo].[FactInternetSales]

group by [ProductKey], [SalesTerritoryKey]

having sum([SalesAmount]) > 10000

--order by [ProductKey] desc;

order by max([salesAmount]) desc, sum(salesamount) desc

Result

ProductKey SalesTerritoryKey Max Sales

606 4 539.99

606 1 539.99

606 7 539.99

606 10 539.99

606 8 539.99

606 6 539.99

606 9 539.99

605 8 539.99

605 1 539.99

605 7 539.99

605 10 539.99

605 4 539.99

605 9 539.99

604 8 539.99

604 9 539.99

604 10 539.99

604 7 539.99

604 1 539.99

604 4 539.99

590 10 769.49

590 4 769.49

590 1 769.49

590 9 769.49

590 8 769.49

589 4 769.49

589 10 769.49

589 1 769.49

589 8 769.49

589 9 769.49

588 9 769.49

588 4 769.49

588 1 769.49

588 10 769.49

587 8 769.49

587 9 769.49

587 10 769.49

587 4 769.49

587 7 769.49

587 1 769.49

585 9 742.35

584 4 539.99

584 9 539.99

584 6 539.99

584 1 539.99

584 7 539.99

584 10 539.99

584 8 539.99

583 7 1700.99

583 1 1700.99

583 9 1700.99

583 4 1700.99

583 10 1700.99

583 8 1700.99

583 6 1700.99

582 4 1700.99

582 10 1700.99

582 7 1700.99

582 1 1700.99

582 9 1700.99

582 8 1700.99

582 6 1700.99

581 4 1700.99

581 10 1700.99

581 8 1700.99

581 6 1700.99

581 9 1700.99

581 1 1700.99

581 7 1700.99

580 8 1700.99

580 4 1700.99

580 10 1700.99

580 1 1700.99

580 7 1700.99

580 6 1700.99

580 9 1700.99

579 10 1214.85

579 4 1214.85

579 8 1214.85

579 7 1214.85

579 1 1214.85

579 9 1214.85

578 8 1214.85

578 10 1214.85

578 1 1214.85

578 9 1214.85

578 6 1214.85

578 4 1214.85

577 8 1214.85

577 6 1214.85

577 9 1214.85

577 4 1214.85

577 10 1214.85

577 1 1214.85

577 7 1214.85

576 1 2384.07

576 9 2384.07

576 6 2384.07

576 8 2384.07

576 7 2384.07

576 4 2384.07

576 10 2384.07

575 9 2384.07

575 6 2384.07

575 8 2384.07

575 1 2384.07

575 4 2384.07

575 7 2384.07

575 10 2384.07

574 9 2384.07

574 4 2384.07

574 10 2384.07

574 8 2384.07

574 6 2384.07

574 7 2384.07

574 1 2384.07

573 9 2384.07

573 6 2384.07

573 4 2384.07

573 7 2384.07

573 1 2384.07

573 10 2384.07

573 8 2384.07

569 4 742.35

568 9 742.35

567 9 742.35

566 9 742.35

565 9 742.35

564 8 2384.07

564 9 2384.07

564 4 2384.07

564 10 2384.07

564 7 2384.07

564 1 2384.07

564 6 2384.07

563 6 2384.07

563 8 2384.07

563 4 2384.07

563 7 2384.07

563 1 2384.07

563 10 2384.07

563 9 2384.07

562 8 2384.07

562 6 2384.07

562 9 2384.07

562 7 2384.07

562 4 2384.07

562 1 2384.07

562 10 2384.07

561 9 2384.07

561 6 2384.07

561 8 2384.07

561 10 2384.07

561 7 2384.07

561 4 2384.07

561 1 2384.07

560 4 1214.85

560 10 1214.85

560 9 1214.85

560 8 1214.85

537 4 35.00

487 9 54.99

486 9 159.00

485 4 21.98

390 4 1120.49

390 10 1120.49

390 7 1120.49

390 1 1120.49

390 9 1120.49

390 8 1120.49

389 7 1000.4375

389 8 1000.4375

389 9 1000.4375

389 10 1000.4375

389 4 1000.4375

388 9 1120.49

388 8 1120.49

388 7 1120.49

388 10 1120.49

388 6 1120.49

388 1 1120.49

388 4 1120.49

387 7 1000.4375

387 1 1000.4375

387 9 1000.4375

387 4 1000.4375

387 10 1000.4375

386 6 1120.49

386 8 1120.49

386 7 1120.49

386 1 1120.49

386 4 1120.49

386 10 1120.49

386 9 1120.49

385 9 1000.4375

385 1 1000.4375

385 4 1000.4375

385 7 1000.4375

384 6 1120.49

384 1 1120.49

384 9 1120.49

384 8 1120.49

384 10 1120.49

384 4 1120.49

384 7 1120.49

383 9 1000.4375

383 4 1000.4375

383 10 1000.4375

382 6 1120.49

382 9 1120.49

382 1 1120.49

382 8 1120.49

382 10 1120.49

382 4 1120.49

382 7 1120.49

381 9 1000.4375

381 4 1000.4375

381 1 1000.4375

381 8 1000.4375

381 10 1000.4375

380 9 2443.35

380 4 2443.35

380 10 2443.35

380 7 2443.35

380 8 2443.35

379 9 2181.5625

379 1 2181.5625

379 8 2181.5625

379 4 2181.5625

379 10 2181.5625

379 7 2181.5625

378 8 2443.35

378 9 2443.35

378 7 2443.35

378 1 2443.35

378 4 2443.35

378 10 2443.35

377 9 2181.5625

377 10 2181.5625

377 4 2181.5625

377 8 2181.5625

377 6 2181.5625

377 7 2181.5625

377 1 2181.5625

376 9 2443.35

376 4 2443.35

376 7 2443.35

376 10 2443.35

376 8 2443.35

375 7 2181.5625

375 4 2181.5625

375 1 2181.5625

375 6 2181.5625

375 9 2181.5625

375 8 2181.5625

375 10 2181.5625

374 9 2443.35

374 7 2443.35

374 1 2443.35

374 4 2443.35

374 10 2443.35

374 8 2443.35

373 7 2181.5625

373 10 2181.5625

373 4 2181.5625

373 9 2181.5625

373 1 2181.5625

373 6 2181.5625

373 8 2181.5625

372 1 2443.35

372 10 2443.35

372 7 2443.35

372 8 2443.35

372 9 2443.35

372 4 2443.35

371 7 2181.5625

371 1 2181.5625

371 4 2181.5625

371 10 2181.5625

371 6 2181.5625

371 9 2181.5625

371 8 2181.5625

370 8 2443.35

370 10 2443.35

370 4 2443.35

370 7 2443.35

370 1 2443.35

370 9 2443.35

370 6 2443.35

369 6 2443.35

369 7 2443.35

369 8 2443.35

369 10 2443.35

369 9 2443.35

369 4 2443.35

369 1 2443.35

368 8 2443.35

368 9 2443.35

368 6 2443.35

368 4 2443.35

368 10 2443.35

368 7 2443.35

368 1 2443.35

363 1 2294.99

363 9 2294.99

363 4 2294.99

363 10 2294.99

363 6 2294.99

363 8 2294.99

363 7 2294.99

362 6 2049.0982

362 9 2049.0982

362 1 2049.0982

362 7 2049.0982

362 4 2049.0982

362 10 2049.0982

362 8 2049.0982

361 1 2294.99

361 7 2294.99

361 4 2294.99

361 10 2294.99

361 9 2294.99

361 6 2294.99

361 8 2294.99

360 9 2049.0982

360 1 2049.0982

360 7 2049.0982

360 4 2049.0982

360 10 2049.0982

360 8 2049.0982

360 6 2049.0982

359 4 2294.99

359 7 2294.99

359 1 2294.99

359 10 2294.99

359 9 2294.99

359 8 2294.99

359 6 2294.99

358 4 2049.0982

358 10 2049.0982

358 1 2049.0982

358 7 2049.0982

358 6 2049.0982

358 9 2049.0982

358 8 2049.0982

357 10 2319.99

357 4 2319.99

357 7 2319.99

357 8 2319.99

357 6 2319.99

357 1 2319.99

357 9 2319.99

356 8 2071.4196

356 10 2071.4196

356 7 2071.4196

356 4 2071.4196

356 1 2071.4196

356 6 2071.4196

356 9 2071.4196

355 8 2319.99

355 6 2319.99

355 10 2319.99

355 4 2319.99

355 9 2319.99

355 7 2319.99

355 1 2319.99

354 6 2071.4196

354 8 2071.4196

354 4 2071.4196

354 7 2071.4196

354 10 2071.4196

354 9 2071.4196

354 1 2071.4196

353 8 2319.99

353 6 2319.99

353 9 2319.99

353 1 2319.99

353 4 2319.99

353 7 2319.99

353 10 2319.99

352 9 2071.4196

352 6 2071.4196

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352 10 2071.4196

352 4 2071.4196

352 1 2071.4196

352 7 2071.4196

351 9 3374.99

351 4 3374.99

351 10 3374.99

351 1 3374.99

350 6 3374.99

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350 10 3374.99

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349 9 3374.99

349 4 3374.99

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349 7 3374.99

349 1 3374.99

349 8 3374.99

348 6 3374.99

348 7 3374.99

348 9 3374.99

348 4 3374.99

348 10 3374.99

347 8 3399.99

347 9 3399.99

347 10 3399.99

347 4 3399.99

346 8 3399.99

346 9 3399.99

346 4 3399.99

346 10 3399.99

346 1 3399.99

345 9 3399.99

345 8 3399.99

345 1 3399.99

345 10 3399.99

345 4 3399.99

344 1 3399.99

344 10 3399.99

344 9 3399.99

344 8 3399.99

344 7 3399.99

344 4 3399.99

343 9 782.99

339 9 782.99

335 9 782.99

333 4 782.99

329 9 782.99

329 4 782.99

327 9 782.99

325 9 782.99

325 4 782.99

321 9 782.99

314 6 3578.27

314 8 3578.27

314 9 3578.27

314 4 3578.27

314 10 3578.27

314 7 3578.27

314 1 3578.27

313 9 3578.27

313 6 3578.27

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311 8 3578.27

311 10 3578.27

310 6 3578.27

310 1 3578.27

310 7 3578.27

310 4 3578.27

310 10 3578.27

310 9 3578.27

310 8 3578.27

222 9 34.99

222 4 34.99

222 1 34.99

217 4 34.99

217 1 34.99

217 9 34.99

214 4 34.99

214 10 34.99

214 1 34.99

214 9 34.99

Question 4

Using [AdventureWorksDW2019].[dbo].[FactInternetSales]

Based on the Total sale, classify our product into the following categories

- High selling => 2000

- Medium selling < 2000

- Low selling < 1000

Query

/\*Based on the Total sale, classify our product into the following categories

- High selling => 2000

- Medium selling < 2000

- Low selling < 1000 \*/

select [ProductKey],

sum([SalesAmount]) [Total Sales],

/\* Classification By Total product Sales\*/

case

when sum([SalesAmount]) < 1000 then 'Low Selling'

when sum([SalesAmount]) < 2000 then 'Medium Selling'

when sum([SalesAmount]) >= 2000 then 'High Selling'

end

as 'Sales Bracket'

FROM [AdventureWorksDW2019].[dbo].[FactInternetSales]

group by [ProductKey]

order by [ProductKey] desc;

ProductKey Total Sales Sales Bracket

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606 208436.14 High Selling

605 196016.37 High Selling

604 194396.40 High Selling

600 22139.59 High Selling

599 30239.44 High Selling

598 31319.42 High Selling

597 26459.51 High Selling

596 25919.52 High Selling

595 27119.52 High Selling

594 28249.50 High Selling

593 22034.61 High Selling

592 25424.55 High Selling

591 25424.55 High Selling

590 106189.62 High Selling

589 99264.21 High Selling

588 98494.72 High Selling

587 113884.52 High Selling

586 35632.80 High Selling

585 39344.55 High Selling

584 180356.66 High Selling

583 394629.68 High Selling

582 367413.84 High Selling

581 399732.65 High Selling

580 418443.54 High Selling

579 106906.80 High Selling

578 128774.10 High Selling

577 117840.45 High Selling

576 350458.29 High Selling

575 381451.20 High Selling

574 357610.50 High Selling

573 421980.39 High Selling

572 37117.50 High Selling

571 34890.45 High Selling

570 35632.80 High Selling

569 43798.65 High Selling

568 43798.65 High Selling

567 47510.40 High Selling

566 42313.95 High Selling

565 40829.25 High Selling

564 333769.80 High Selling

563 376683.06 High Selling

562 359994.57 High Selling

561 410060.04 High Selling

560 98402.85 High Selling

541 27105.65 High Selling

540 27970.80 High Selling

539 23140.74 High Selling

538 22435.56 High Selling

537 48860.00 High Selling

536 34818.39 High Selling

535 21541.38 High Selling

530 7425.12 High Selling

529 9480.24 High Selling

528 15444.05 High Selling

491 22081.91 High Selling

490 20192.26 High Selling

489 21973.93 High Selling

488 21919.94 High Selling

487 40307.67 High Selling

486 39591.00 High Selling

485 46619.58 High Selling

484 7218.60 High Selling

483 39360.00 High Selling

482 2427.30 High Selling

481 2679.02 High Selling

480 7307.39 High Selling

479 15390.88 High Selling

478 20229.75 High Selling

477 21177.56 High Selling

476 25406.37 High Selling

475 24636.48 High Selling

474 21276.96 High Selling

473 12382.50 High Selling

472 12636.50 High Selling

471 10668.00 High Selling

467 10849.07 High Selling

465 12220.51 High Selling

463 11951.12 High Selling

390 211772.61 High Selling

389 72031.50 High Selling

388 235302.90 High Selling

387 77033.6875 High Selling

386 265556.13 High Selling

385 69030.1875 High Selling

384 222977.51 High Selling

383 67029.3125 High Selling

382 221857.02 High Selling

381 72031.50 High Selling

380 307862.10 High Selling

379 314145.00 High Selling

378 359172.45 High Selling

377 375228.75 High Selling

376 383605.95 High Selling

375 307600.3125 High Selling

374 346955.70 High Selling

373 281421.5625 High Selling

372 327408.90 High Selling

371 375228.75 High Selling

370 324965.55 High Selling

369 395822.70 High Selling

368 351842.40 High Selling

363 961600.81 High Selling

362 411868.7382 High Selling

361 979960.73 High Selling

360 383181.3634 High Selling

359 954715.84 High Selling

358 340150.3012 High Selling

357 930315.99 High Selling

356 370784.1084 High Selling

355 909436.08 High Selling

354 347998.4928 High Selling

353 979035.78 High Selling

352 360427.0104 High Selling

351 192374.43 High Selling

350 202499.40 High Selling

349 151874.55 High Selling

348 165374.51 High Selling

347 122399.64 High Selling

346 166599.51 High Selling

345 142799.58 High Selling

344 197199.42 High Selling

343 43847.44 High Selling

342 23070.2406 High Selling

341 33668.57 High Selling

340 11884.6694 High Selling

339 32885.58 High Selling

338 14681.0622 High Selling

337 33668.57 High Selling

336 15380.1604 High Selling

335 37583.52 High Selling

334 19574.7496 High Selling

333 45413.42 High Selling

332 12583.7676 High Selling

331 32102.59 High Selling

330 13981.964 High Selling

329 48545.38 High Selling

328 18176.5532 High Selling

327 39149.50 High Selling

326 15380.1604 High Selling

325 46196.41 High Selling

324 11185.5712 High Selling

323 28187.64 High Selling

322 11884.6694 High Selling

321 43064.45 High Selling

320 13282.8658 High Selling

314 1055589.65 High Selling

313 1080637.54 High Selling

312 1205876.99 High Selling

311 1005493.87 High Selling

310 1202298.72 High Selling

237 20645.87 High Selling

234 22595.48 High Selling

231 22095.58 High Selling

228 21445.71 High Selling

225 19688.10 High Selling

222 74353.75 High Selling

217 72954.15 High Selling

214 78027.70 High Selling