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DS 3002

```
DROP database `northwind_dw`;

CREATE DATABASE `northwind_dw` /*!40100 DEFAULT CHARACTER SET latin1 */ /*!80016
DEFAULT ENCRYPTION=N */;

USE northwind_dw;

#Drop table dim_customers;

CREATE TABLE `dim_customers` (

  `customer_key` int NOT NULL auto_increment,

  `company` varchar(50) DEFAULT NULL,

  `last_name` varchar(50) DEFAULT NULL,

  `first_name` varchar(50) DEFAULT NULL,

  `job_title` varchar(50) DEFAULT NULL,

  `business_phone` varchar(25) DEFAULT NULL,

  `fax_number` varchar(25) DEFAULT NULL,

  `address` longtext,

  `city` varchar(50) DEFAULT NULL,

  `state_province` varchar(50) DEFAULT NULL,

  `zip_postal_code` varchar(15) DEFAULT NULL,

  `country_region` varchar(50) DEFAULT NULL,

  PRIMARY KEY (`customer_key`),

  KEY `city` (`city`),

  KEY `company` (`company`),

  KEY `first_name` (`first_name`),

  KEY `last_name` (`last_name`),

  KEY `zip_postal_code` (`zip_postal_code`),

  KEY `state_province` (`state_province`)
```

```
) ENGINE=InnoDB AUTO_INCREMENT=30 DEFAULT CHARSET=utf8;
```

```
#Drop table dim_employees;
```

```
CREATE TABLE `dim_employees` (  
  `employee_key` int NOT NULL auto_increment,  
  `company` varchar(50) DEFAULT NULL,  
  `last_name` varchar(50) DEFAULT NULL,  
  `first_name` varchar(50) DEFAULT NULL,  
  `email_address` varchar(50) DEFAULT NULL,  
  `job_title` varchar(50) DEFAULT NULL,  
  `business_phone` varchar(25) DEFAULT NULL,  
  `home_phone` varchar(25) DEFAULT NULL,  
  `fax_number` varchar(25) DEFAULT NULL,  
  `address` longtext,  
  `city` varchar(50) DEFAULT NULL,  
  `state_province` varchar(50) DEFAULT NULL,  
  `zip_postal_code` varchar(15) DEFAULT NULL,  
  `country_region` varchar(50) DEFAULT NULL,  
  `web_page` longtext,  
  PRIMARY KEY (`employee_key`),  
  KEY `city` (`city`),  
  KEY `company` (`company`),  
  KEY `first_name` (`first_name`),  
  KEY `last_name` (`last_name`),  
  KEY `zip_postal_code` (`zip_postal_code`),  
  KEY `state_province` (`state_province`)  
) ENGINE=InnoDB AUTO_INCREMENT=10 DEFAULT CHARSET=utf8;
```

```
#Drop table dim_products;
```

```
CREATE TABLE `dim_products` (  
  `products_key` int NOT NULL auto_increment,
```

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`product_code` varchar(25) DEFAULT NULL,
`product_name` varchar(50) DEFAULT NULL,
`description` longtext,
`standard_cost` decimal(19,4) DEFAULT '0.0000',
`list_price` decimal(19,4) NOT NULL DEFAULT '0.0000',
`reorder_level` int(11) DEFAULT NULL,
`target_level` int(11) DEFAULT NULL,
`quantity_per_unit` varchar(50) DEFAULT NULL,
`discontinued` tinyint(1) NOT NULL DEFAULT '0',
`minimum_reorder_quantity` int(11) DEFAULT NULL,
`category` varchar(50) DEFAULT NULL,
`attachments` longblob,
PRIMARY KEY (`products_key`),
KEY `product_code` (`product_code`)
) ENGINE=InnoDB AUTO_INCREMENT=100 DEFAULT CHARSET=utf8;

```

```

#drop table dim_shippers;
CREATE TABLE `dim_shippers` (
  `shippers_key` int NOT NULL auto_increment,
  `company` varchar(50) DEFAULT NULL,
  `last_name` varchar(50) DEFAULT NULL,
  `first_name` varchar(50) DEFAULT NULL,
  `job_title` varchar(50) DEFAULT NULL,
  `business_phone` varchar(25) DEFAULT NULL,
  `fax_number` varchar(25) DEFAULT NULL,
  `address` longtext,
  `city` varchar(50) DEFAULT NULL,
  `state_province` varchar(50) DEFAULT NULL,
  `zip_postal_code` varchar(15) DEFAULT NULL,
  `country_region` varchar(50) DEFAULT NULL,
  PRIMARY KEY (`shippers_key`),

```

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KEY `city` (`city`),
KEY `company` (`company`),
KEY `first_name` (`first_name`),
KEY `last_name` (`last_name`),
KEY `zip_postal_code` (`zip_postal_code`),
KEY `state_province` (`state_province`)
) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8;

```

# PART 2

```

INSERT INTO `northwind_dw`.`dim_customers`
(`customer_key`,
`company`,
`last_name`,
`first_name`,
`job_title`,
`business_phone`,
`fax_number`,
`address`,
`city`,
`state_province`,
`zip_postal_code`,
`country_region`)
SELECT `customers`.`id`,
      `customers`.`company`,
      `customers`.`last_name`,
      `customers`.`first_name`,
      `customers`.`job_title`,
      `customers`.`business_phone`,
      `customers`.`fax_number`,
      `customers`.`address`,

```

```

        `customers`.`city`,
        `customers`.`state_province`,
        `customers`.`zip_postal_code`,
        `customers`.`country_region`
FROM `northwind`.`customers`;

```

```

SELECT * FROM northwind_dw.dim_customers;

```

```

INSERT INTO `northwind_dw`.`dim_employees`
(`employee_key`,
`company`,
`last_name`,
`first_name`,
`email_address`,
`job_title`,
`business_phone`,
`home_phone`,
`fax_number`,
`address`,
`city`,
`state_province`,
`zip_postal_code`,
`country_region`,
`web_page`)

```

```

SELECT `employees`.`id`,
        `employees`.`company`,
        `employees`.`last_name`,
        `employees`.`first_name`,
        `employees`.`email_address`,
        `employees`.`job_title`,
        `employees`.`business_phone`,

```

```

        `employees`.`home_phone`,
        `employees`.`fax_number`,
        `employees`.`address`,
        `employees`.`city`,
        `employees`.`state_province`,
        `employees`.`zip_postal_code`,
        `employees`.`country_region`,
        `employees`.`web_page`
FROM `northwind`.`employees`;

SELECT * FROM northwind_dw.dim_employees;

INSERT INTO `northwind_dw`.`dim_products`
(`products_key`,
`product_code`,
`product_name`,
`description`,
`standard_cost`,
`list_price`,
`reorder_level`,
`target_level`,
`quantity_per_unit`,
`discontinued`,
`minimum_reorder_quantity`,
`category`,
`attachments`)
SELECT `products`.`id`,
        `products`.`product_code`,
        `products`.`product_name`,
        `products`.`description`,
        `products`.`standard_cost`,

```

```

        `products`.`list_price`,
        `products`.`reorder_level`,
        `products`.`target_level`,
        `products`.`quantity_per_unit`,
        `products`.`discontinued`,
        `products`.`minimum_reorder_quantity`,
        `products`.`category`,
        `products`.`attachments`
FROM `northwind`.`products`;

```

```

SELECT * FROM northwind_dw.dim_products;

```

```

INSERT INTO `northwind_dw`.`dim_shippers`
(`shippers_key`,
`company`,
`last_name`,
`first_name`,
`job_title`,
`business_phone`,
`fax_number`,
`address`,
`city`,
`state_province`,
`zip_postal_code`,
`country_region`)
SELECT `shippers`.`id`,
        `shippers`.`company`,
        `shippers`.`last_name`,
        `shippers`.`first_name`,
        `shippers`.`job_title`,
        `shippers`.`business_phone`,

```

```
`shippers`.`fax_number`,
`shippers`.`address`,
`shippers`.`city`,
`shippers`.`state_province`,
`shippers`.`zip_postal_code`,
`shippers`.`country_region`
FROM `northwind`.`shippers`;
```

```
SELECT * FROM northwind_dw.dim_shippers;
```

```
# PART 3
```

```
#drop table fact_orders;
CREATE TABLE `fact_orders` (
`order_id` int,
`employee_id` int,
`customer_id` int,
`product_id` int,
`shipper_id` int,
`ship_name` varchar(50) DEFAULT NULL,
`ship_address` varchar(50) DEFAULT NULL,
`ship_city` varchar(50) DEFAULT NULL,
`ship_state_province` varchar(2) DEFAULT NULL,
`ship_zip_postal_code` varchar(50) DEFAULT NULL,
`ship_country_region` varchar(50) DEFAULT NULL,
`quantity` int,
`order_date` date,
`shipped_date` date,
`unit_price` int,
`discount` int,
```



```
`shipping_fee` int,  
`taxes` int,  
`payment_type` varchar(50) DEFAULT NULL,  
`paid_date` date,  
`tax_rate` int,  
`order_status` varchar(50) DEFAULT NULL,  
`order_details_status` varchar(50) DEFAULT NULL
```

```
) Engine = InnoDB DEFAULT charset = latin1;
```

```
# PART 4
```

```
INSERT INTO northwind_dw.fact_orders  
(order_id,  
employee_id,  
customer_id,  
product_id,  
shipper_id,  
ship_name,  
ship_address,  
ship_city,  
ship_state_province,  
ship_zip_postal_code,  
ship_country_region,  
quantity,  
order_date,  
shipped_date,  
unit_price,  
discount,  
shipping_fee,
```

```

taxes,
payment_type,
paid_date,
tax_rate,
order_status,
order_details_status)
SELECT o.id,
       o.employee_id,
       o.customer_id,
       od.product_id,
       o.shipper_id,
       o.ship_name,
       o.ship_address,
       o.ship_city,
       o.ship_state_province,
       o.ship_zip_postal_code,
       o.ship_country_region,
       od.quantity,
       o.order_date,
       o.shipped_date,
       od.unit_price,
       od.discount,
       o.shipping_fee,
       o.taxes,
       o.payment_type,
       o.paid_date,
       o.tax_rate,
       os.status_name AS order_status,
       ods.status_name AS order_details_status
FROM northwind.orders AS o
INNER JOIN northwind.orders_status AS os
ON o.status_id = os.id

```

```

RIGHT OUTER JOIN northwind.order_details AS od
ON o.id = od.order_id
INNER JOIN northwind.order_details_status AS ods
ON od.status_id = ods.id;

```

```

-- -----
-- Validate that the Data was Inserted -----
-- -----

SELECT * FROM northwind_dw.fact_orders;

```

# PART 5

```

SELECT customers.`last_name` as `customer_name`,
       SUM(orders.`quantity`) as `total_quantity`,
       SUM(orders.`unit_price`) as `total_unit_price`
FROM `northwind_dw`.`fact_orders` AS orders
INNER JOIN `northwind_dw`.`dim_customers` AS customers
ON orders.customer_id = customers.customer_key
group by customers.`last_name`
order by total_unit_price Desc;

```

	customer_name	total_quantity	total_unit_price
►	Lee	277	288
	Pérez-Olaeta	427	163
	Raghav	405	120
	Andersen	260	119
	Axen	253	101
	Bedecs	115	85
	Liu	175	74
	Wacker	265	73
	Mortensen	160	65
	Edwards	35	64
	Krschne	90	47
	Xie	300	46
	Rodman	50	32
	Toh	130	18