

Week 4: DDL & Sample SQL for Sales Schema

--CREATE TABLE SECTION

```
CREATE TABLE SalesRepresentative
(
    salesrepid    INTEGER NOT NULL,
    lastname      VARCHAR(50),
    firstname     VARCHAR(50),
    streetaddress VARCHAR(255),
    city          VARCHAR(25),
    state         VARCHAR(25),
    zipcode       VARCHAR(10),
    region        VARCHAR(50) NOT NULL,
    regiondescription VARCHAR(255),
    totalcommission  FLOAT,
    commissionrate  FLOAT,
    CONSTRAINT salesrepresentative_pk PRIMARY KEY (salesrepid, region)
);
```

```
CREATE TABLE Customer
(
    customerid  VARCHAR(25) NOT NULL PRIMARY KEY,
    lastname    VARCHAR(50),
    firstname   VARCHAR(50),
    streetaddress VARCHAR(255),
    city        VARCHAR(25),
    state       VARCHAR(25),
    zipcode     VARCHAR(10),
    currentbalance  FLOAT,
    creditlimit    FLOAT,
    salesrepid    INTEGER
);
```

```
CREATE TABLE Sales_Order
(
    orderid    INTEGER NOT NULL PRIMARY KEY,
    odate      TIMESTAMP(0),
    customerid VARCHAR(25) NOT NULL REFERENCES customer(customerid),
    shippingdate  TIMESTAMP(0)
);
```

CREATE TABLE Part

```
(  
    partid      VARCHAR(25) NOT NULL PRIMARY KEY,  
    partdescription VARCHAR(255),  
    uniteonhand  INTEGER,  
    pclass       VARCHAR(255),  
    warehousenumber VARCHAR(25),  
    unitprice    FLOAT  
);
```

CREATE TABLE OrderLines

```
(  
    orderid      INTEGER NOT NULL,  
    partid       VARCHAR(25),  
    numberordered INTEGER,  
    quotedprice  FLOAT,  
    CONSTRAINT orderlines_pk PRIMARY KEY (orderid, partid)  
);
```

--INSERT QUERIES

--Insert Statements for SalesrepResentative Table

INSERT INTO salesrepresentative

(salesrepid,
lastname,
firstname,
streetaddress,
city,
state,
zipcode,
region,
regiondescription,
totalcommission,
commissionrate)

VALUES (3,
'Jones',
'Mary',
'123 Main',
'Grant',
'MI',
'48219',
'C',
'Central',
2150,
0.05);

INSERT INTO salesrepresentative

(salesrepid,
lastname,
firstname,
streetaddress,
city,
state,
zipcode,
region,
regiondescription,
totalcommission,
commissionrate)

VALUES (3,
'Jones',
'Mary',
'123 Main',

```
'Grant',  
'MI',  
'48219',  
'E',  
'Eastern',  
2150,  
0.05);
```

```
INSERT INTO salesrepresentative
```

```
(salesrepid,  
  lastname,  
  firstname,  
  streetaddress,  
  city,  
  state,  
  zipcode,  
  region,  
  regiondescription,  
  totalcommission,  
  commissionrate)
```

```
VALUES (6,  
  'Smith',  
  'William',  
  '102 Raymond',  
  'Ada',  
  'MI',  
  '49441',  
  'W',  
  'Western',  
  4912.5,  
  0.07);
```

```
INSERT INTO salesrepresentative
```

```
(salesrepid,  
  lastname,  
  firstname,  
  streetaddress,  
  city,  
  state,  
  zipcode,  
  region,  
  regiondescription,  
  totalcommission,  
  commissionrate)
```

```
VALUES (12,  
  'Diaz',  
  'Miguel',  
  '419 Harper',
```

```
'Lansing',  
'MI',  
'49224',  
'SC',  
'South Central',  
2150,  
0.05);
```

```
INSERT INTO salesrepresentative
```

```
(salesrepid,  
  lastname,  
  firstname,  
  streetaddress,  
  city,  
  state,  
  zipcode,  
  region,  
  regiondescription,  
  totalcommission,  
  commissionrate)
```

```
VALUES (12,  
  'Diaz',  
  'Miguel',  
  '419 Harper',  
  'Lansing',  
  'MI',  
  '49224',  
  'UP',  
  'Upper Pennisula',  
  2150,  
  0.05);
```

--Insert Statements for Customer Table

INSERT INTO customer

(customerid,
lastname,
firstname,
streetaddress,
city,
state,
zipcode,
currentbalance,
creditlimit,
salesrepid)

VALUES (124,
'Mohnani',
'Payal',
'481 Oak',
'Lansing',
'MI',
'49224',
818.75,
1000,
3);

INSERT INTO customer

(customerid,
lastname,
firstname,
streetaddress,
city,
state,
zipcode,
currentbalance,
creditlimit,
salesrepid)

VALUES (256,
'Waters',
'Cheryl',
'215 Pete',
'Grant',
'MI',
'49219',
21.5,
1500,
6);

INSERT INTO customer

(customerid,

```
        lastname,  
        firstname,  
        streetaddress,  
        city,  
        state,  
        zipcode,  
        currentbalance,  
        creditlimit,  
        salesrepid)  
VALUES    (311,  
        'Charles',  
        'Don',  
        '48 College',  
        'Ira',  
        'MI',  
        '49034',  
        825.75,  
        1000,  
        12 );
```

```
INSERT INTO customer  
        (customerid,  
        lastname,  
        firstname,  
        streetaddress,  
        city,  
        state,  
        zipcode,  
        currentbalance,  
        creditlimit,  
        salesrepid)  
VALUES    (315,  
        'Daniels',  
        'Tom',  
        '914 Cherry',  
        'Kent',  
        'MI',  
        '48391',  
        770.75,  
        750,  
        6);
```

```
INSERT INTO customer  
        (customerid,  
        lastname,  
        firstname,  
        streetaddress,  
        city,
```



```
state,  
zipcode,  
currentbalance,  
creditlimit,  
salesrepid)  
VALUES (405,  
        'Williams',  
        'AI',  
        '519 Watson',  
        'Grant',  
        'MI',  
        '49219',  
        402.75,  
        1500,  
        12);
```

```
INSERT INTO customer  
  (customerid,  
   lastname,  
   firstname,  
   streetaddress,  
   city,  
   state,  
   zipcode,  
   currentbalance,  
   creditlimit,  
   salesrepid)  
VALUES (412,  
        'Adams',  
        'Sally',  
        '16 Elm',  
        'Lansing',  
        'MI',  
        '49224',  
        1817.5,  
        2000,  
        3);
```

```
INSERT INTO customer  
  (customerid,  
   lastname,  
   firstname,  
   streetaddress,  
   city,  
   state,  
   zipcode,  
   currentbalance,  
   creditlimit,
```

```
        salesrepid)
VALUES    (522,
        'Nelson',
        'Mary',
        '108 Pine',
        'Ada',
        'MI',
        '49441',
        98.75,
        1500,
        2);
```

```
INSERT INTO customer
(customerid,
lastname,
firstname,
streetaddress,
city,
state,
zipcode,
currentbalance,
creditlimit,
salesrepid)
VALUES    (567,
        'Dinh',
        'Tran',
        '808 Ridge',
        'Harper',
        'MI',
        '48421',
        402.4,
        750,
        6);
```

```
INSERT INTO customer
(customerid,
lastname,
firstname,
streetaddress,
city,
state,
zipcode,
currentbalance,
creditlimit,
salesrepid)
VALUES    (587,
        'Galvez',
        'Mara',
```

```
'512 Pine',  
'Ada',  
'MI',  
'49441',  
114.6,  
1000,  
6);
```

```
INSERT INTO customer
```

```
(customerid,  
lastname,  
firstname,  
streetaddress,  
city,  
state,  
zipcode,  
currentbalance,  
creditlimit,  
salesrepid)
```

```
VALUES (622,  
'Martin',  
'Dan',  
'419 Chip',  
'Grant',  
'MI',  
'49219',  
1045.75,  
1000,  
3);
```

Insert Statements for Sales_Order Table

```
INSERT INTO sales_order
    (orderid,
     odate,
     customerid,
     shippingdate)
VALUES    (12489,
          '02-JUL-2011',
          124,
          '22-JUL-2011');
```

```
INSERT INTO sales_order
    (orderid,
     odate,
     customerid,
     shippingdate)
VALUES    (12491,
          '02-JUL-2011',
          311,
          '22-JUL-2011');
```

```
INSERT INTO sales_order
    (orderid,
     odate,
     customerid,
     shippingdate)
VALUES    (12494,
          '04-JUL-2011',
          315,
          '12-JUL-2011');
```

```
INSERT INTO sales_order
    (orderid,
     odate,
     customerid,
     shippingdate)
VALUES    (12495,
          '04-JUL-2011',
          256,
          '22-AUG-2011');
```

```
INSERT INTO sales_order
    (orderid,
     odate,
     customerid,
     shippingdate)
VALUES    (12498,
```

```
'05-JUL-2011',  
522,  
NULL);
```

```
INSERT INTO sales_order  
  (orderid,  
   odate,  
   customerid,  
   shippingdate)  
VALUES  (12500,  
        '05-JUL-2011',  
        124,  
        '22-AUG-2011');
```

```
INSERT INTO sales_order  
  (orderid,  
   odate,  
   customerid,  
   shippingdate)  
VALUES  (12504,  
        '05-JUL-2011',  
        522,  
        NULL);
```

Insert Statements for Part Table

```
INSERT INTO part
(partid,
 partdescription,
 uniteonhand,
 pclass,
 warehousenumber,
 unitprice)
VALUES ('AX12',
 'Iron',
 104,
 'HW',
 '3',
 24.95);
```

```
INSERT INTO part
(partid,
 partdescription,
 uniteonhand,
 pclass,
 warehousenumber,
 unitprice)
VALUES ('AZ52',
 'Dartboard',
 20,
 'SW',
 '2',
 12.95);
```

```
INSERT INTO part
(partid,
 partdescription,
 uniteonhand,
 pclass,
 warehousenumber,
 unitprice)
VALUES ('BH22',
 'Corn Popper',
 95,
 'HW',
 '3',
 24.95);
```

```
INSERT INTO part
(partid,
 partdescription,
```

```
uniteonhand,  
pclass,  
warehousenumber,  
unitprice)  
VALUES ('BT04',  
'Gas Grill',  
11,  
'AP',  
'2',  
149.99);
```

```
INSERT INTO part  
(partid,  
partdescription,  
uniteonhand,  
pclass,  
warehousenumber,  
unitprice)  
VALUES ('BZ66',  
'Washer',  
52,  
'AP',  
'3',  
39.99);
```

```
INSERT INTO part  
(partid,  
partdescription,  
uniteonhand,  
pclass,  
warehousenumber,  
unitprice)  
VALUES ('CA14',  
'Griddle',  
78,  
'HW',  
'3',  
39.99);
```

```
INSERT INTO part  
(partid,  
partdescription,  
uniteonhand,  
pclass,  
warehousenumber,  
unitprice)  
VALUES ('CB03',  
'Bike',
```

```
44,  
'SG',  
'1',  
299.99);
```

```
INSERT INTO part  
  (partid,  
   partdescription,  
   uniteonhand,  
   pclass,  
   warehousenumber,  
   unitprice)  
VALUES ('CX11',  
       'Blender',  
       112,  
       'HW',  
       '3',  
       22.95);
```

```
INSERT INTO part  
  (partid,  
   partdescription,  
   uniteonhand,  
   pclass,  
   warehousenumber,  
   unitprice)  
VALUES ('CZ81',  
       'Treadmill',  
       68,  
       'SG',  
       '2',  
       349.95);
```


Insert Statements for OrderLines Table

INSERT INTO orderlines

(orderid,
partid,
numberordered,
quotedprice)

VALUES (12489,
'AX12',
11,
21.95);

INSERT INTO orderlines

(orderid,
partid,
numberordered,
quotedprice)

VALUES (12491,
'BT04',
1,
149.99);

INSERT INTO orderlines

(orderid,
partid,
numberordered,
quotedprice)

VALUES (12491,
'BZ66',
1,
399.99);

INSERT INTO orderlines

(orderid,
partid,
numberordered,
quotedprice)

VALUES (12494,
'CB03',
4,
279.99);

INSERT INTO orderlines

(orderid,
partid,
numberordered,
quotedprice)

```
VALUES    (12495,  
          'CX11',  
          2,  
          22.95);
```

```
INSERT INTO orderlines
```

```
(orderid,  
 partid,  
 numberordered,  
 quotedprice)
```

```
VALUES    (12498,  
          'AZ52',  
          2,  
          12.95);
```

```
INSERT INTO orderlines
```

```
(orderid,  
 partid,  
 numberordered,  
 quotedprice)
```

```
VALUES    (12500,  
          'BT04',  
          1,  
          149.99);
```

```
INSERT INTO orderlines
```

```
(orderid,  
 partid,  
 numberordered,  
 quotedprice)
```

```
VALUES    (12504,  
          'CZ81',  
          2,  
          325.99);
```

```
SELECT * FROM SalesrepResentative ORDER BY salesrepid, region;
```

```
SELECT * FROM OrderLines ORDER BY orderid, partid;
```

```
SELECT * FROM Part ORDER BY partid;
```

OUTPUT OF EXECUTION:

[illegible]

Customer

CUSTOMERID	LASTNAME	FIRSTNAME	STREETADDRESS	CITY	STATE	ZIPCODE	CURRENTBALANCE	CREDITLIMIT	SALESREPID
124	Mohnani	Payal	481 Oak	Lansing	MI	49224	818.75	1000	3
256	Waters	Cheryl	215 Pete	Grant	MI	49219	21.5	1500	6
311	Charles	Don	48 College	Ira	MI	49034	825.75	1000	12
315	Daniels	Tom	914 Cherry	Kent	MI	48391	770.75	750	6
405	Williams	Al	519 Watson	Grant	MI	49219	402.75	1500	12
412	Adams	Sally	16 Elm	Lansing	MI	49224	1817.5	2000	3
522	Nelson	Mary	108 Pine	Ada	MI	49441	98.75	1500	2
567	Dinh	Tran	808 Ridge	Harper	MI	48421	402.4	750	6
587	Galvez	Mara	512 Pine	Ada	MI	49441	114.6	1000	6
622	Martin	Dan	419 Chip	Grant	MI	49219	1045.75	1000	3

10 rows selected.

SalesRepresentative

SALESREPID	LASTNAME	FIRSTNAME	STREETADDRESS	CITY	STATE	ZIPCODE	REGION	REGIONDESCRIPTION	TOTALCOMMISSION	COMMISSIONRATE
3	Jones	Mary	123 Main	Grant	MI	48219	C	Central	2150	.05
3	Jones	Mary	123 Main	Grant	MI	48219	E	Eastern	2150	.05
6	Smith	William	102 Raymond	Ada	MI	49441	W	Western	4912.5	.07
12	Diaz	Miguel	419 Harper	Lansing	MI	49224	SC	South Central	2150	.05
12	Diaz	Miguel	419 Harper	Lansing	MI	49224	UP	Upper Penninsula	2150	.05

5 rows selected.

Sales Order

ORDERID	ODATE	CUSTOMERID	SHIPPINGDATE
12489	02-JUL-11	124	22-JUL-11
12491	02-JUL-11	311	22-JUL-11
12494	04-JUL-11	315	12-JUL-11
12495	04-JUL-11	256	22-AUG-11
12498	05-JUL-11	522	-
12500	05-JUL-11	124	22-AUG-11
12504	05-JUL-11	522	-

7 rows selected.

Order Lines

ORDERID	PARTID	NUMBERORDERED	QUOTEDPRICE
12489	AX12	11	21.95
12491	BT04	1	149.99
12491	BZ66	1	399.99
12494	CB03	4	279.99
12495	CX11	2	22.95
12498	AZ52	2	12.95
12500	BT04	1	149.99
12504	CZ81	2	325.99

8 rows selected.

Part

PARTID	PARTDESCRIPTION	UNITEONHAND	PCLASS	WAREHOUSENUMBER	UNITPRICE
AX12	Iron	104	HW	3	24.95
AZ52	Dartboard	20	SW	2	12.95
BH22	Corn Popper	95	HW	3	24.95
BT04	Gas Grill	11	AP	2	149.99
BZ66	Washer	52	AP	3	39.99
CA14	Griddle	78	HW	3	39.99
CB03	Bike	44	SG	1	299.99
CX11	Blender	112	HW	3	22.95
CZ81	Treadmill	68	SG	2	349.95

9 rows selected.

References:

Oppel, A. J. (2009). *Databases: A beginner's guide*. New York, NY: McGraw-Hill.

Laureate Education (Producer). (2011a). *Designing a database* [Video file]. Baltimore, MD: Author