

SECD2523 - Database

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Section: 06

Title: Lab1 - DDL

Part 1

1. How many tables have been created using the CREATE TABLE statement?
- 10 tables
2. How many columns are created for the price history table?
- 6 columns
3. What statement is used to enforce the constraint that the category column of the items table must have a value?
- NOT NULL.
4. What is the name of the foreign key constraint between the customers and customer addresses tables?
- ctr_number
5. What are the lowest and highest values that can be stored in the commission_rate column for the sales_representatives table?
- Lowest value: -99
- Highest value: 99
6. What are the lowest and highest values that can be stored in the price column for the price_history table?
- Lowest value: -99999.99
- Highest value: 99999.99

7. What are the 3 columns that make up the primary key for the price_history table?

- itm_number, start_date, start_time

Part 2

Modifying a column:

1. - DESCRIBE order;
2. - ALTER TABLE order
MODIFY odr_date DEFAULT SYSDATE;
3. - DESCRIBE order;

Adding a check constraint:

1. - DESCRIBE customers;
2. - ALTER TABLE customers
MODIFY current_balance CONSTRAINT j_chk CHECK (current_balance >= 0);
3. - DESCRIBE customers;

4.

```

132
133
134 ALTER TABLE ordered_items ADD CONSTRAINT ordered_item_order_fk FOREIGN KEY ( odr_id )
135 REFERENCES orders ( id );
136
137 ALTER TABLE sales_rep_addresses ADD CONSTRAINT sales_rep_add_sales_rep_fk FOREIGN KEY ( id )
138 REFERENCES sales_representatives ( id );
139
140 ALTER TABLE sales_representatives ADD CONSTRAINT sales_rep_sales_rep_fk FOREIGN KEY ( supervisor_id ) REFERENCES sales_representatives
141
142
143 CREATE OR REPLACE TRIGGER fknta_orders BEFORE
144 UPDATE OF ctr_number ON orders
145 BEGIN
146     raise_application_error(
147         CURRENT_BALANCE_CHK '225,
148         ..n Transferable FK constraint on table orders is violated'
149     );
150 END;
151 /
152
153 DESCRIBE customers;
154
155 ALTER TABLE customers
156 MODIFY current_balance CONSTRAINT current_balance_chk CHECK(current_balance >= 0);
157
  
```

Adding a column

1. - DESCRIBE customers;
2. - ALTER TABLE customers
ADD mobile_phone_number VARCHAR(11);
3. DESCRIBE customers;

DROPPINGDropping a column

1. - DESCRIBE customers;
2. - ALTER TABLE customers
DROP COLUMN mobile_phone_number;
3. - DESCRIBE customers;