SQL 3   ① Part 1 Exercise 1

Part 1

1. SELECT * FROM customers ;

2. SELECT * FROM teams ;

3. SELECT * FROM Items ;

Part 2

1. SELECT ctr-number, first-name, last-name, email, phone-number
   FROM customers ;

2. SELECT name, number-of-players
   FROM teams ;

3. SELECT name, description, category
   FROM items ;

(2) Part 2   Exercise 2

Part 1

1. SELECT first_name, last_name, current_balance, current_balance /12
   FROM   customers;

2. SELECT first_name, last_name, ctr_number, current_balance, current_balance -5
   FROM   customers;

3. Current balance cannot less than zero.

Part 2

1. SELECT first_name AS "First Name", last_name AS "Last Name",
   current_balance AS "Balance", current_balance / 12 AS
   "Monthly Repayments"
   FROM customers;

Part 3

1. SELECT 'The ' || name || ' team has ' || number_of_players || ' players
   and receives a discount of ' || discount || ' percent.
   AS "Team Information"
   FROM teams;

2. If contains a null value.

③ Part 3

Part 1

1. SELECT * FROM customers
   WHERE ctr_number = 'c01986' ;

2. SELECT first_name AS "First Name", last_name AS "Last Name",
   ctr_number AS "Customer Number"
   FROM customers
   WHERE current_balance > 100 ;

3. SELECT id AS "Order id", odr_date AS "Order Date",
   To_CHAR (odr_time, 'HH24:MI:SS') AS 'Order Time',
   FROM orders
   WHERE odr_date < '28-May-2019' ;

Part 2

1. SELECT id AS "Inventory id", cost AS "Cost", units AS "Number
   of units"
   FROM inventory_list
   WHERE cost BETWEEN 3 AND 15 ;

Part 3

1. SELECT id AS "Inventory id", cost AS "Cost", units AS "Number
   of units"
   FROM inventory_list
   WHERE units IN (50, 100, 150, 200);

Part 4

1. SELECT id AS "Inventory id", cost AS "cost", units AS "Number
   of units"
   FROM inventory_list
   WHERE units NOT IN (50, 100, 150, 200);

Part 5

1.
```sql
SELECT    itm_number AS "Item Number", name AS "Name"
FROM      items
WHERE     name    LIKE    'g%' ;
```

Part 6

1.
```sql
SELECT    itm_number AS "Item Number", name AS "Name"
FROM items
WHERE     name   like    '%o%' ;
```

④ Part 4

Part 1

1. SELECT 'The ' || name || ' team has ' || number_of_players ||
   ' players and does not receive a discount.' AS "Team Information"
   FROM teams
   WHERE discount IS NULL;

2. SELECT 'The ' || name || ' team has ' || number_of_players ||
   ' players and receives a discount of ' || discount ||
   ' percent.' AS "Team Information"
   FROM teams
   WHERE discount IS NOT NULL;

Part 2

1. SELECT id AS "Customer Number", address_line_1 AS
   "Street Address", zip_code AS "Postal Code"
   FROM customers_addresses
   WHERE city = 'Liverpool' AND address_line_2 = 'Starford';

Part 3

1. SELECT id AS "Customer Number", address_line_1 AS "Street
   Address", zip_code AS "Postal Code"
   FROM customers_addresses
   WHERE city = 'Liverpool' OR address_line_2 = 'starford';

Part 4

1. SELECT id AS "Customer Number", address_line_1 AS "Street Address",
   zip_code AS "Postal Code"
   FROM customers_addresses
   WHERE city NOT IN ('Liverpool');

⑤ Part 5

1.
```sql
SELECT    name AS "Team Name" , number_of_players AS
             "Number of Players"
FROM    teams
ORDER BY  name ;
```

2.
```sql
SELECT   name AS " Team Name" , number_of_players AS
            " Number of players "
FROM   teams
ORDER BY   number_of_players  DESC ;
```

3.
```sql
SELECT name AS " Team Name" , number_of_players AS
            "Players "
FROM   teams
ORDER BY    " Team Name"  DESC ;
```

⑥ Part 6

Part 1

1.
```sql
SELECT  RowNUM AS " Customer Number", first_name ||' '||
            last_name  AS  " Customer Name"
FROM    ( SELECT  first_name , last_name
           FROM   customers
           ORDER BY  ctr-number )
WHERE     RowNUM <= 3 ;
```

Part 2

1.
```sql
SELECT   first_name ||' '|| last_name  AS  " Sales Representatives "
FROM   sales_representatives
WHERE   commission_rate = : commission_rate
ORDER  BY  last_name ;
```